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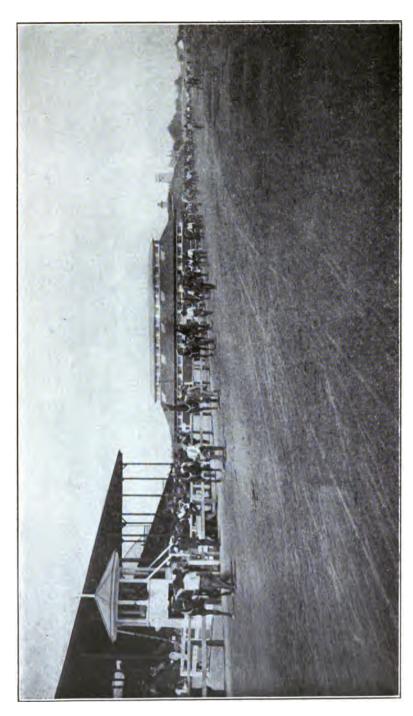
CALIFORNIA

SANTA CRUZ



是一个人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们也是一个人的人,我们也是一个人的人,也是一个人的人,也是一个人的人,也是一个人的人,也是 一个人的人的人的人,我们就是一个人的人的人的人,我们就是一个人的人的人的人的人的人的人的人的人,也是一个人的人的人的人的人的人的人的人的人的人的人们也是一个人的

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REPORT

OF THE

CALIFORNIA STATE AGRICULTURAL SOCIETY

FOR THE YEAR 1910



SACRAMENTO:

W, W. SHANNON : : : SUPERINTENDENT STATE PRINTING

1911

STATE BOARD OF AGRICULTURE, 1910.

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CONTENTS.

RESOURCES OF THE STATE OF CALIFORNIA (by counties).

Page.	PAGE.
ALAMEDA COUNTY 61	PLACER COUNTY 132
ALPINE COUNTY 65	RIVERSIDE COUNTY 136
AMADOR COUNTY 66	SACRAMENTO COUNTY 139
BUTTE COUNTY 70	SAN BENITO COUNTY 145
COLUSA COUNTY 73	SAN BERNARDINO COUNTY 147
CONTRA COSTA COUNTY 75	SAN DIEGO COUNTY 151
DEL NORTE COUNTY 78	SAN FRANCISCO COUNTY 156
EL DORADO COUNTY 79	SAN JOAQUIN COUNTY 157
FRESNO COUNTY 81	SAN MATEO COUNTY 160
GLENN COUNTY 88	SANTA BARBARA COUNTY 162
HUMBOLDT COUNTY 93	SANTA CLARA COUNTY 164
IMPERIAL COUNTY 96	SANTA CRUZ COUNTY 167
KERN COUNTY 98	SHASTA COUNTY 172
LAKE COUNTY 101	SIERRA COUNTY 177
LASSEN COUNTY 104	SISKIYOU COUNTY 179
LOS ANGELES COUNTY 106	SOLANO COUNTY 182
MADERA COUNTY 111	STANISLAUS COUNTY 185
MERCED COUNTY 113	SUTTER COUNTY 187
MODOC COUNTY 117	TEHAMA COUNTY 189
MONO COUNTY 119	TRINITY COUNTY 194
MONTEREY COUNTY 121	VENTURA COUNTY 197
NAPA COUNTY 125	YOLO COUNTY 200
NEVADA COUNTY 127	YUBA COUNTY 204
ORANGE COUNTY 130	1

REPORT

OF THE

STATE AGRICULTURAL SOCIETY.

To His Excellency, HIRAM W. JOHNSON, Governor of the State of California.

Sm: We have the honor to submit herewith, for your consideration, the Fifty-Seventh Annual Report of the State Agricultural Society.

Besides a statement showing the receipts and expenditures of the society for the past year, we include herein the statistical reports of such counties as have complied with the law by sending in returns, and also some articles on Agriculture and kindred subjects by gentlemen especially qualified to treat the questions considered.

REGARDING STATISTICS.

In spite of the best efforts we can exert, some of the counties continue to ignore the statute which makes it their duty to supply this society, on or before a certain date each year, with statistics of their products. If supervisors could know how much these reports are sought after by students of California and prospective immigrants to the State, and how much publicity the counties that do report receive as a reward for their efforts, we believe the situation would be different. But they do not know this, and, not realizing the benefit, they see only the cost and act on the belief, apparently, that they are favoring their county by saving the hundred dollars or so that would be necessary to secure the report which the law directs. How they can harmonize their oaths to support the Constitution and laws of the State in the face of a deliberate disregard of this particular statute is for them to explain.

As the matter of full and reliable state statistics is of very great importance, and as California is behind most of the other states in the completeness of its industrial data, we are disposed, by way of emphasizing the importance of the subject, to repeat the recommendations made a year ago, which were in effect that to repeal the law and abandon the attempt to collect industrial statistics would be to go backwards, to put California behind the less progressive states. Since this can not be thought of, the thing to do is to so amend the law as to make it effective. Several measures might be suggested to this end, but we believe the simplest and easiest thing to do would be to make county assessors ex officio county statisticians, require of them a house to house canvass in making assessments and collecting statistical data, increase their compensation according to the increased work, and provide a penalty, first, for the

producer or manufacturer who declines to give the desired information; and second, for the official or officials who neglect in any way to carry out the provisions of the law. We suggest imposing this extra duty on the assessors because they are supposed to be better informed regarding values and industrial conditions in their respective counties than other citizens, and because, further, they are already required to collect certain data, and they might as well make one job of it and do the work complete. This is substantially the Kansas law on the subject, and there it works very satisfactorily.

Another effective remedy would be to add to the present law a provision that where county supervisors neglect or refuse to appoint a statistician on or before a certain date, say August 1st of each year, it shall become the duty of the State Agricultural Society to appoint a citizen of the defaulting county to collect the statistics of said county at the expense of said county, and in the event the supervisors refuse to allow such claim, then authorize the State Treasurer to pay the same and deduct the amount thereof from any money due or that may become due from the State to said county from any source.

We know you will agree with us when we say that if this statistical work is to be continued it ought to be so complete as to be of maximum value and a credit to the State, and we ask your valued assistance in helping to bring about such amendments to the present law on the subject as will insure such results.

A BRIEF RETROSPECT.

In 1906, after a spirited contest among the directors, pool selling and book making on the fair grounds were abolished, and the selling of spirituous drinks prohibited. This action on the part of the directors and a simultaneous change of management seemed to mark the turning point for the better. In spite of many obstacles and many discouraging conditions, chief of which was the San Francisco disaster, the fair that year was an improvement on the one of the year before, and each fair held by the society since has been better than the preceding one. This is significant in view of the fact that when the reforms referred to were inaugurated all kinds of dire consequences were predicted. abolished privileges had been bringing the society twenty or more thousand dollars a year, and it was contended that without this revenue the society could not live. But it did live, and remarkable as it may seem, the deficiency the first year under the reform was not so great as the average deficiency of previous fairs. The touts and sports were not so much in evidence among the visitors, but in their place came farmers, merchants, and other substantial men of affairs with their families, giving the institution a higher and more dignified cast, which recommended itself strongly to the better element of our population. reform was so radical, so thorough and so effectively enforced as to convince the doubting that the management was in earnest, and at once encouragement began to be received from the press and other influential sources that previously had been opposed to the society, or indifferent as to its welfare. To be sure the management worked hard and under adverse conditions to vindicate its course, but that it stands vindicated to-day must be admitted by all fair critics.

The exhibits each year, by persistent effort, have been better and more representative of our great State and its various resources than the year before, and in time—and not a long time—we hope to hold a fair that will represent not only every product, but every section of this most fruitful of American commonwealths. When that day comes the California State Fair will be in itself a complete exposition of western resources, so comprehensive in the variety of its displays as to attract visitors from all sections of the country who desire to study the possibilities of this rich region of America from convincing living objects.

THE VALUE OF FAIRS.

Fairs are mileposts of progress; they are educators, and they give stimulus to greater endeavor along agricultural, mechanical, and other industrial lines. They are for all the people; they represent all classes, occupations, and conditions of life; they unite city and country and wipe out all class distinction; and they give an uplift to rural life and inspire progress in every branch of honest activity. That they should be encouraged goes without saying, but the maximum benefit can only be realized from a fair that comprehends all it professes to show. In other words, a state fair that represents in its exhibits only part of the state and part of its resources may be worth all it costs, but nevertheless it falls short of its purpose. The management of the California State Agricultural Society realizes this and has spared no effort within its means to extend the influence of the society to the remotest corners of California and draw exhibits to the annual fairs from every quarter and every industry. In this effort they have been successful to a degree that has overcrowded their accommodations.

NEED OF BETTER EQUIPMENT.

The past two years tents and other temporary structures have had to be provided to accommodate the overflow. This last year two temporary grand stands, two temporary live stock barns and two temporary exhibition buildings were erected at considerable expense, and yet we did not have grand stand room enough, nor stalls enough, nor display room enough to meet the demands. This is an unfortunate condition for two reasons: first, the cost of these structures cuts largely into the revenue; and second, visitors and exhibitors who have to accept temporary accommodations feel that they are discriminated against and abate their enthusiasm for the institution, thus causing the society to lose in one direction what it may have gained in another, and rendering the work of promoting the next fair just that much more difficult. remedy this situation, the society needs a new and larger grand stand, a coliseum or live stock amphitheater, more live stock barns and more exhibition buildings. It feels that the State ought to supply these. also thinks the State ought to provide a reasonable sum for better fire protection and the planting and care of the Agricultural Park. With proper equipment, of which this society is sadly lacking, compared with that of most other states, the annual fairs in California might be made not only the best, but the most instructive in America, for the reason that our range of products comprehends a greater variety than can be brought together from any similar area of the continent.

THE SOCIETY IMPROVING.

In strength and prestige the society shows continued improvement. With its holdings and attractions now in one enclosure, a change that should have been made many years ago, with proper encouragement and better equipment we are hoping for greater advancement in the future than in the recent past.

The last fair, the fair of 1910, as we have said, was not only an improvement on the fairs of the previous years, but was by far the biggest and best we have ever had. This was due largely to the enterprise of the citizens of Sacramento, the capital of California and the state fair city. They believed in what has become an accepted fact with all experienced fair managers, that more and better side attractions would give impetus to every department of the exposition. They knew, however, that our financial condition justified the directors in conservative action regarding the expenditure of money for such attractions, and through an organization created for the purpose they raised a large sum of money and agreed to become responsible for the expenses of certain attractions, and to take in return all money received at the fair over and above a specified amount. This amount, however, which it was agreed should first go to the society, was in excess of the revenue from the best past year.

Under this arrangement some of the best attractions to be had on the American continent were brought to California, and the result was an attendance more than double the attendance of the previous year, while the fair proper was proportionately greater and better. Producers, manufacturers, and breeders, realizing that the big attractions were going to bring big crowds, exhibited in larger numbers than ever before, pressing our capacity to the limit and compelling us, in spite of the temporary quarters referred to in some departments, to reject exhibits for the want of a place to put them.

Altogether, it was the fair of fairs in California, and while the citizens' committee fell a little short in their proportion of the receipts of the amount they had guaranteed, yet the society did well and the citizens made up their deficiency with alacrity, declaring that the big crowds brought to Sacramento and the incidental expenditures among the citizens and business houses paid them many fold the cost. Indeed, so well pleased were the people generally with the outcome that by practically unanimous request the citizens' committee has been kept intact for the purpose of coöperating with the society on similar lines in the fair of 1911, and we are all confident that with the experience gained this year we will be able another year, crop and industrial conditions being favorable, to hold a still bigger and better fair, and without leaving any deficiencies for the citizens or anybody else to meet.

In brief, it has been amply demonstrated that good attractions pay, and while the state fair officials know and admit that the organization is not created primarily for the amusement of the people, yet, in order to get the people together where they may profit by the educational and stimulating character of a great industrial display, there must be something to amuse as well as instruct. After all, men and women are only grown up boys and girls, and while they are anxious to learn and

improve by what they can see at a big exposition of industrial and live stock resources, yet they take the educational part with better relish and pay the admission fee with a freer hand when they realize they are going to be entertained and amused as well as instructed.

AGRICULTURE THE BASE OF OUR WEALTH.

California has various rich resources, such as mining, lumbering, manufacturing and commerce, yet to-day agriculture and its allied industries produce the big end of the State's wealth. Agriculture, in a great measure, sustains all other industries; upon it the varied commercial, business and professional interests of the State depend. When the farmer is prosperous all are prosperous; therefore, those who work the soil should have all the help that just laws and popular encouragement can give them, and no stimulus has proven greater to this branch of industry than a well conducted and well patronized agricultural fair.

The Federal Government yearly gives more and more attention to agriculture, and is justly proud of the result of this branch of its work. Secretary Wilson, head of the Agricultural Department of the United States, in his latest report says that "Nothing short of omniscience can grasp the value of the farm products of this last year. At no time in the world's history," he continues, "has a country produced farm products within one year with a value of the agricultural products of this country for 1910. The value of farm products from 1899 to the present year has been progressive without interruption. If the value of the products of 1899 is placed at 100, the value for this year is 189, or almost double the value for the census year eleven years ago. During this period of unexampled agricultural production, a period of twelve years, during which the farmers of this country have steadily advanced in prosperity and wealth and in economic independence, in intelligence, and a knowledge of agriculture, the total value of farm products is \$79,000,000,000.00."

Of this stupendous wealth from the farms of the United States, California has produced her full share and has kept pace with the rapid increase of production in the country at large. This last year crops of all kinds in this State were good, and prices on the whole were a little more than an average, more particularly as applies to cereals, meats, dairy and poultry products. Of the unprecedented agricultural output of the United States for 1910, California contributed, including her fruits and vegetables, her cereals, live stock, dairy products, hay, poultry and eggs, wine and brandy, beet sugar, hops, hides, wool, etc., not less than \$300,000,000.00, or about \$115,000,000.00 more than the average of all the states of the Union.

Our output of cereals was conservatively: Barley, which now takes first place in California, 975,000 tons; wheat, 212,000 tons; oats, 140,000 tons; corn, 45,700 tons, and hay, 3,786,250 tons. There is some rye, hemp, flax, and buckwheat grown in this State, but the quantity of these products is not sufficient to enter materially into commercial calculations. Cotton growing in Imperial County and rice growing in the Sacramento Valley have attracted considerable attention the last few years, and in the case of the former the acreage and annual yield is



increasing very rapidly, promising soon to add a material item to our

State agricultural wealth.

Wool shows a gradual decline, falling off from 26,000,000 pounds, in round numbers, for the banner year of 1902, to 13,300,000 pounds in 1910. The number of sheep in California is 1,900,000, which gives an average clip of 7 pounds, as against an average of 7.05 for the Western States, or 6.7 for the United States. About one third of the wool in this State is clipped in the fall and about two thirds in the spring.

Our dairy industry grows with the increase of irrigation and the advance of intense farming, the total output from all branches of this industry last year being, according to the State Dairy Bureau, which perhaps has these figures more complete than ours, \$28,256,609.00, or an increase of \$2,000,000.00, in round numbers, over the year before.

The sugar beet industry is making rapid strides, the figures of 1910 showing an increase in the yield of sugar over 1909 of more than a million pounds, or a total of 290,000,000 pounds. The hop crop was a fair average, aggregating about 6,500 tons. Beans fell off from the record yield of 1909, yet the crop was the largest excepting that of last year ever harvested in California, being carefully estimated at 85,000 tons. Our figures are only partial on some products, of which honey is one. Last year, 1909, we had a big yield, figured by some as high as 11,000,000 pounds; this year the output is about half, or estimated at 5,500,000 pounds.

California's horticultural output, which has become a leading item in the State's wealth, averaged well with recent previous years, while prices on the whole were such as to insure fair returns to the producers. Not taking into account the large amount of fruit that goes into local consumption, and taking our figures from the shipping exchanges and the packers, or as gleaned from them by the California Fruit Grower, an accepted authority, along with some obtained from independent sources, the yield from California's orchards, vineyards and gardens last year, or for 1910, was substantially:

Fresh deciduous fruit shipped out of the State, exclusive	
	3 cars
Apples shipped out of State 2,10	t cars
Citrus fruit shipped out of State 33,099	cars
Raisins cured 62,500) tons
Prunes cured 37,000) tons
Peaches cured 25,000) tons
Other fruits cured23,775	tons
Canned fruit (estimated) 3,500,000) cases
Canned vegetables (estimated)1,500,000) cases
Fresh vegetables exported89.780	tons
Almonds produced (estimated) 3,500) tons
Walnuts produced (estimated) 4,500	
Wine produced (estimated)46,000,000	
Brandy produced (estimated) 6,500,000	gallons

Reducing all these figures to a dollar and cents basis, the tremendous value of the farm, orchard, and vineyard interests of California are apparent at a glance, and in these figures the live stock interests, which are valued at \$50,000,000.00, are not taken into account, barring the reference to wool, nor is the olive crop, now worth at least \$1,000,000.00 a year to the State, included.

Mining is important, lumbering is important, commerce and manufacturing are important, but they all lean more or less on agriculture. What makes for the uplift of the farm and the farmer makes for the prosperity of the State; hence any measures in law or policy wisely aimed to better the condition of agriculture or the agriculturist in California should meet with generous approval.

Very respectfully,

H. A. JASTRO, President.

Attest:

J. A. FILCHER, Secretary.

FINANCIAL STATEMENT.

February 1, 1910, to January 31, 1911.

SUMMARY.

RECEIPTS.		
1910. Feb. 1—Cash balance	. \$346	46
Park and pavilion receipts	30.283	
Rent		
Entrance due	674	
Futurities		
Fred L. Martin, special treasurer		
California National Bank	540	
American Shorthorn Breeders' Association	820	
Appropriation for aid	20.000	
• •		
Total	\$61,536	49
1911. Jan. 31—Expense Races		
Salaries		
Pay rolls	6.428	85
Advertising	3,726	57
Interest		6 3
State Treasurer	2,205	71
Building and improvement	7,949	
Premiums	14,465	03
Cash	202	13
Total	\$61 59G	40

CEREAL CROP OF CALIFORNIA, 1910.

By T. C. FRIEDLANDER.

The year 1910 has accentuated the change that has been working for some years in the cereal products in the State of California. Barley has easily taken first place with the largest crop yet harvested. total is estimated by the United States Department of Agriculture to be 971,900 tons of 2,000 pounds each, as against a crop of 750,000 tons in 1909. These figures are larger than the general trade estimates, but the difference between the two crops is conceded to be about what the department figures show. The value of the 1910 crop is about \$19,000,000. Exports by sea from the first of May to the thirty-first of December, 1910, have been 207,615 tons, and an amount estimated at 20,000 tons has gone forward by rail. While the exports have practically all been for malting purposes, the bulk of the crop is used for feed purposes, barley being the staple feed crop of the State, occupying the same position that corn does in other parts of the United States. This is the grain of greatest economic worth to California, and this will be constantly accentuated as the acreage to alfalfa and other grasses is increased and the raising of live stock assumes larger proportions.

California has not for some years raised sufficient wheat for its own consumption. The crop of 1909 was 201,000 tons, with the total consumption estimated at 435,000 tons. The small yield of wheat of later years is owing in some measure to unfavorable seasons, but is chiefly due to the change of acreage from wheat to barley.

The other cereals play a minor part in the cereal production of the State, but it is to be hoped the cereal investigations now being conducted by the agricultural department of the University of California will result in discovering a species of corn that can be profitably raised under California's conditions of climate and soil and take its place with barley as a feed crop.

In the years to come an increase in the crops of both wheat and barley can confidently be expected. As already stated, the demand for barley will be constantly on the increase. This will insure good prices, and with the price of wheat as attractive as it has been for the past few years, farmers will continue to seed to these grains.

Perhaps the more important factor in large crops will be better farming, such as deeper plowing, selection of seed and approved methods of dry farming, insuring much larger yields per acre.

WHEAT CROPS AND DISTRIBUTION.

The following table shows the rainfall at San Francisco for a series of years and the wheat crop of California and distribution, in centals:

Season.	Rain- fall.	Crop year.	Crop.	Exports.	Local consump- tion.	Carry over stock.	Imports.
1889-90	17.58 18.53 21.75 18.47 25.70 21.25 23.43 9.38 16.87 21.17 18.98 18.28 20.59 23.45 20.42 26.17	1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1901 1902 1903 1904 1905 1906 1907 1908	18,889,680 21,095,440 19,904,640 19,904,640 14,335,844 15,730,004 17,452,041 18,351,786 19,462,047 12,230,516 18,620,263 8,958,599 6,537,131 3,197,138 6,001,439 3,843,090	17,388,400 16,586,380 13,489,480 11,983,540 11,995,480 13,613,980 12,907,953 4,259,913 9,455,737 11,211,648 13,710,220 8,576,530 3,631,899 3,665,370 1,800,922 1,648,493 1,319,995 821,893	6,300,000 6,000,000 6,300,000 6,500,000 7,200,000 6,800,000 7,000,000 6,860,000 7,190,000 7,270,000 6,785,000 7,306,660 7,535,920 7,442,000 7,555,000 8,172,000	1,977,940 2,451,000 5,727,580 6,456,000 2,930,700 1,990,272 3,388,606 3,585,606 8,615,583 4,218,718 2,984,147 1,401,910 2,636,430 1,105,539 1,684,878 1,725,547 899,907	1,740,444 1,994,00 1,520,100 1,630,300 2,536,66 1,108,56 2,080,52 2,754,50 4,115,68 1,774,26 1,125,38 2,950,32 2,950,32 2,950,400 6,885,07 3,129,72 4,192,26 5,917,48

ACREAGE AND PRODUCTION OF BARLEY IN CALIFORNIA. Compiled by the U. S. Department of Agriculture.

řear.	Acreage.	Average yield per acre, bushels.	Production, centals.
1892	845,240		9.737.16
	700 740		
20.4			8,215,73
		00.0	5,323,68
895		20.3	9,131,36
896		21.6	9,521,80
897		23.0	9,733,40
898		10.5	4,399,0
899		26.0	10,675,0
900	889,591	16.7	7,130,9
901	1,089,785	26.0	13,600,5
902	1 4 4 4 4 0 000 4	26.0	14,280,5
903		25.7	14.821.5
904	4,00=,500	22.7	13,484,1
905	4 000 800	21.5	12,771.3
906	4 40 1 000	27.2	18,760.0
907		28.9	15.028.0
000		23.5	
			12,204,9
909		26.5	15,009,6
910	1,306,387	31.0	19,438,

WHEAT QUOTATIONS, 1909-10.

Average, highest and lowest prices of No. 1 white wheat for each month of the past cereal year. Quotations based on actual transactions in sample market:

Month.	Average.	Highest.	Lowest.
July	\$2 10	\$2 15	\$2 05
	1 87½	2 00	1 75
	1 72½	1 80	1 65
	1 82½	2 00	1 65
	1 82½	1 85	1 80
	1 97½	2 00	1 95
January February March April May June	\$1 97½	\$2 05	\$1 90
	1 93½	2 00	1 87½
	1 85	1 95	1 75
	1 67½	1 80	1 55
	1 54%	1 58\$	1 50
	1 45	1 50	1 40

BARLEY QUOTATIONS, 1909-10.

Average, highest and lowest prices of No. 1 feed barley for each month of the past cereal year. Quotations based on actual transactions in the sample market:

Month.	Average.	Highest.	Lowest.
1909. July August September October November December	\$1 458 1 40 1 37½ 1 40 1 458 1 48%	\$1 48\$ 1 45 1 40 1 45 1 47 <u>1</u> 1 52 <u>1</u>	\$1 42½ 1 35 1 35 1 35 1 43¾ 1 45
January February March April May June	\$1 41\\\ 1 37\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$1 50 1 40 1 45 1 35 1 15 1 10	\$1 32½ 1 35 1 35 1 10 1 06¾ 1 00

CALIFORNIA FRESH FRUIT.

By F. B. McKevitt, Manager California Fruit Distributors.

The marketing of a great crop of shipping fruit such as California now produces is a problem deserving of most careful study on the part of growers and shippers alike. Did we have our own crop alone to consider the solution would be easy, but California is not the only State with great horticultural interests. Texas, Georgia, the two Virginias, Delaware, Maryland, New Jersey, New York, Ohio, Michigan, Missouri, Arkansas, Colorado, Idaho, Utah, Washington and Oregon are all heavily interested in the same lines of fruit growing and while it is true we have a much greater range of production, including some varieties that are not grown at all elsewhere, we can not escape the financial consequences of the competition of their products, but must endeavor to so shape our course that we will minimize it to as great an extent as possible. How to do so successfully is the problem and the solution justifies all the thought, care and expense demanded by interest that controls the prosperity of thousands of our fruit growers and involves sales of a gross value of \$12,000,000 to \$15,000,000.

The first thing we have to do, after the season has advanced far enough to allow us to estimate our own production, is to figure what other sections will have. We must have the best information obtainable on this subject, covering not only probable production, but also the time of ripening. Records show what it has been in the past, and then, as the season is reported, so many days earlier or later, we can estimate, with normal weather conditions, the time when to expect their heavy shipments and so avoid them as much as possible. The season in California must be considered also, as it occurs every now and then that a little difference in ripening-earlier here and later there, or vice versa, may make a profitable opening for a variety that at any other time perhaps would not bring freight. Certain sections of the country outside of California market their shipments in some markets to the comparative exclusion of others—this tendency must be known and taken into consideration, avoiding as far as possible those markets likely to be overloaded with competitors' stocks, and shipping more heavily to others that they do not, or can not reach. The conditions referred to have more bearing upon the shipment of peaches than any other variety, as that is the competing fruit produced most largely in the south and east, but have their effect on all varieties, since we cannot expect to sell any fruit at high prices if the market is supplied with local stock which is both plentiful and cheap.

When crop and market conditions have been determined and shipment begins then comes the necessity for such a distribution of our fruit among the different markets as seems likely to secure best returns for same. No actual systematic distribution is possible unless a large volume of the business is controlled by one central agency. So long as



considerable shipments are made by independent operators, distribution is rendered more or less uncertain. Every shipper, independent or otherwise, will strive to reach the best markets, but a lack of knowledge as to where the shipments of others are going will always handicap distribution and to a considerable extent nullify it. It is only a few years ago that all shippers were acting independently with the result that frequently markets were overloaded with consequent heavy losses, and others left under-supplied where a small quantity of fruit would sell at high prices. The complaints of the losing growers who depended on these sales, not only for their profits, but for very existence, were generally met with the explanation that other companies had shipped in so many cars that they overloaded the market and it could not be helped. Then the shippers all and singly came in for a sound scoring because they did not "get together" to prevent such senseless slaughter. It was in obedience to this demand, and in recognition of the fact that something must be done to remedy the evil. that the California Fruit Distributors was organized. So far as the business of this corporation was concerned the evil was remedied, distribution was accomplished, red ink returns instead of being a common thing became almost unknown; then the grower began to worry because he was afraid the shippers had formed a "trust," and his interests were in danger. This idea has been systematically encouraged by competitors who depend largely upon that alone to increase their business, and who are unwilling to spend a portion of their earnings in supporting and upbuilding an institution which from the very nature of things can not prosper without bringing prosperity to the growers in an even larger measure than to the shippers. If good distribution means better prices for fruit, then every grower who wishes to prosper, and desires to see the industry prosper, should support an institution which is working to bring this about and which is able to do so. It is a well known fact that a large percentage of the fruit shipments of this State is handled for the grower's account. grows, picks, packs, and delivers his fruit to the firm with whom he is doing business and same is shipped and sold for his account, the amount realized, less established and well known charges, going to him. No effort is spared to secure the best results as satisfactory returns mean satisfied and friendly growers—a result that is of far greater value to the shipper than the small profit received; the work of the California Fruit Distributors, contributing so largely to this end, does not add one cent of expense to the grower, being entirely covered by an assessment levied on the business of the shipper.

There never will be anything in the nature of a trust in this business. Fruit is most largely sold at auction; these auctions are open to all, and can be and are used by growers who ship in car lots. It is not likely that any other method than this will ever be used by California fruit shippers in the large cities, but should the business retrograde to the private sale plan, that is as open to the grower as the other. If all fruit sent out was purchased by the shipper, and the grower was compelled to take such a price for his product as was offered, or let it stay at home, there would be danger, but as it is the grower can either sell f. o. b. if the opportunity offers, or send it forward on consignment, to be offered for sale to competitive buyers who



will base their bids on the value of the fruit. The shipper sends his own fruit to these markets he must sell it in the same place, in the same way, and to the same buyers, enjoying no advantage whatsoever in its sale that is not open to every grower. With these opportunities open to him, the ability to purchase supplies at fair prices and with the lowest commission charge known for similar service, the California grower is well protected and never need be misled by the cry of "trust" to lose faith in those who are his friends, many of them fruit growers themselves, and who are now, as they have been in the past, working hard to advance the interests of the fruit industry of this State.

Leaving you with these few thoughts upon marketing, we will proceed to consider briefly the shipments and results of the past season.

At the opening of the season we were confronted with the prospect of having to meet unusually heavy competition from the fruit of other sections. Texas, which produced very little in the preceding season came to the front with a crop of peaches of 4,200 car loads, followed by Georgia whose output of 2,100 car loads in 1909 was nearly three times as heavy, amounting to 6,100 car loads in 1910. Then came Delaware, Maryland and New Jersey with a yield of over 3,000 car loads against a practical failure in 1909; New York with 4,000 car loads of peaches and nearly as many more of grapes; Ohio, including the islands of Lake Erie, marketed over 1,000 car loads of peaches; Connecticut, 500 cars of peaches; Arkansas and Missouri, 700 cars of peaches; Colorado and Utah, 1,000 cars of peaches, and Washington 2,000 cars of peaches. In addition to this Michigan, although badly crippled by frost, produced considerable quantities of both peaches and grapes. West Virginia had an abundant crop, and old Virginia, although not a large producer, appeared in the arena not only with a good crop of all varieties, but surprised everybody with a crop of cherries which appeared in market as early as May 10th.

Nor was California behind in the race. Our fruit crops of all kinds were heavy with the exception of table grapes which were cut down nearly 1.000 cars from last year's output. With this heavy crop in sight, and a certainty of a low dried-peach market, the great problem of marketing our vast output profitably was a serious one and caused many misgivings as to the financial results. We are now able to look back on the history of the season and may congratulate ourselves upon the happy outcome. While no fortunes have been made, the results have been considerably above the average, and most of our growers have something to show for their efforts. That this is the case is owing largely to the effective system of distribution employed, to improved selection and packing of our products through the standardization movement inaugurated and enforced in many of our principal districts, and so far as peaches are concerned, to the good fortune which enabled us to ship a considerable percentage of them at a time

when there was a gap in eastern crops.

Cherry shipments were of the same volume as last year, the figures being 250½ cars against 249¾ in 1909. The first car was shipped April 29th; it was a full car, containing over 24,000 pounds, and was made up principally of Vacaville fruit, but included shipments from Suisun and Sacramento. The season opened nine days earlier than last year. The crop was of good quality, carried well and gave satis-

faction to the trade. Prices were above the average and some exceptionally good sales were made as is shown by the fact that the first sixteen cars shipped by this organization grossed \$65,350.00 or over \$4,000.00 per car. The demand for this fruit is increasing and several markets are now car lot handlers where a few years ago express shipments covered all their requirements.

The apricot crop was good and shipments exceeded those of 1909 by 80 car loads, the exact figures being 209½ cars in 1909 and 289¾ cars in 1910. Considering the larger quantity shipped, prices were fairly satisfactory. This fruit has never been a favorite with the eastern public, owing undoubtedly to the fact that it must be picked rather green to insure sound arrival, and therefore is almost entirely lacking in the delicate flavor which, could it be preserved, would make it more

popular.

Shipping plums of nearly all varieties were a good crop throughout the State. Shipments were 1,552½ cars as compared with 1,526¼ in 1909. Outside of the early shipments which were injured by a few days of hot weather, thereby checking their growth, the fruit was of good quality and sold at prices considerably above the average. Plums are growing in popularity every year; it is to be hoped that this will continue to be the case as many new orchards have been planted and a large acreage of old orchards of peaches and apricots is being worked over to the new variety. Plum production seems likely to double in the next five years.

The pear crop was good, but not heavy. Shipments were 2.361 cars against 2,638 in 1909. Prices realized were not as high as last year owing to the fact that the great bulk of our shipments were offering at a time when very heavy consignments of Georgia peaches were being marketed; these peaches sold at low prices making it difficult, if not impossible, to dispose of large quantities of pears at high prices. The latter part of the season showed very satisfactory results. Winter pears were a light crop; they were in strong demand and sold well. Canners were liberal purchasers of Bartletts and paid very good prices, the quantity used by them more than offsetting the decline in eastern shipments. There has been no material change in the conditions of our pear orchards. While there has been some "fire blight" it has not been of a serious nature and generally speaking we may say that the pear orchards of the State are in as good condition as they were one year ago. No expense should be spared, however, in cutting out and destroying blighted limbs wherever they appear, as whenever climatic conditions are favorable we may expect the return of the disease in virulent form, unless before that time we are successful in completely cleaning out all infection.

Peaches: Notwithstanding the fact that the United States produced in 1910 the largest peach crop in its history, this State shipped nearly as many cars as in the preceding year, the figures being 2,518 this season against 2,599 in 1909; strange as it may seem we realized better

returns this year than last.

Opening prices for dried peaches were so low that the fruit was not worth over \$10.00 per ton for drying. This accounts for the heavy shipment, a considerable portion of which fortunately for us came at a time when a partial break in eastern supplies enabled us to sell at

very satisfactory prices. The Elberta was the best selling variety. Picquet's Late and Salway as usual sold very low, and so far as eastern shipping is concerned, our growers would make no mistake to eliminate It would be well for us if more peaches of the Elberta them entirely. type and ripening at different seasons could be found, as its large size and high color make it a great favorite. The great lack in the State to-day, as we have pointed out in the past, is a succession of highly colored and good sized varieties of peaches with thick skins. With regular supplies of such fruit, markets can be found that would take them throughout the season regardless of the crops of other sections, except, of course, that we would have to meet them on price. The peach industry is not in as good condition as it should be and that is because the price of dried peaches has fallen so low. prices do not indicate that the product is unpopular, because it is not, but the reason is to be found in the fact that the consumer is to-day paying as much for it as he did years ago when living prices were paid to the grower. We believe the retailer is the man who is killing our business by preventing the extensive demand that low prices would bring, and unless we can find some means of reaching the consumer and dealing with him direct, there seems to be little hope for a For this reason, if no other, the fruit growers and dealers of California should do everything in their power to secure the "parcels post." which would enable them to come into direct personal relations with consumers all over the country, supplying small packages of assorted fruits delivered at their homes for a reasonable price and introducing our products into thousands of families where it has as vet never been used.

With a stable and profitable market for dried fruit we are safe, as then we can either ship or dry, regulating our procedure in line with

what seems likely to prove most remunerative.

Grape shipments promised early in the season to be of about the same volume as in 1909. Generally speaking, the crop did not set as heavily as last year, but the increased acreage of young vineyards coming into bearing was expected to rather more than offset this con-Shipments which were 5,880 cars in 1909 fell to 4,945 cars in 1910, this decline being accounted for by considerable losses in the Fresno district by mildew and a few days of hot weather, and in other sections, where the Tokay is the principal crop, by the latter. son Seedless and Malaga grapes were in strong demand, and sold at satisfactory prices. Early and late Tokays also sold better than usual. During the height of the season prices on all grapes dropped to a low level and many cars were sold at a loss. Emperors, when of good quality, sold well, but a considerable portion of the crop was not up to the standard and in consequence brought low prices.

The total shipments of deciduous fruit for the season, exclusive of apples, amounted to 11,993 cars; the average selling value, nearly as it can be determined at this time was about \$1,100.00 per Estimating the average freight and refrigeration per car at \$390.00, commission \$77.00 and loading \$20.00, the gross charges. against each car would aggregate \$487.00, which being deducted from \$1,100.00 leaves \$613.00 per car returned to the grower, or a total in round numbers of \$7,315,000.00 out of which must be paid all expenses for producing the crop and getting it ready to market.

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Railway service during the season was better than ever before until nearly the close, when it "fell down" as usual. A schedule of about one hundred and forty-five hours to Chicago was put into effect by the Southern Pacific for the benefit of the orange growers, which service was subsequently extended to our shipments. The Atchison, Topeka and Santa Fe Railroad maintained the same schedule, and their service was also satisfactory.

The Western Pacific Railroad made its entry into the fruit business this year and transported a considerable percentage of our shipments. Their initial service was rendered in remarkably short time, their fruit trains almost approximating the time of passenger service, and in all cases equaling the best service of other roads. The new line has fully demonstrated its ability to handle successfully this class of business and will undoubtedly grow to be a very important factor in the fruit

industry of the State.

The refrigerator car service has been satisfactory. This branch of the business is in strong and capable hands, and the fruit growers of California have reason to congratulate themselves in having their interests so carefully looked after. Owing to the reduced crop, the car supply was adequate, a slight trouble from shortage occurring but once during the season, but demonstrating the fact that the supply is not yet quite equal to the demands of the business. With the natural increase in shipments more equipment will be needed another year and we wish now to call the attention of the officers of the Pacific Fruit Express car line to this fact, so that the necessary steps to provide for the business may be taken in time.

In regard to the question of rates much might be said, but it is largely a repetition of the old story which we all know so well. We are a long way from our markets and at best it will always cost us a large

percentage of our sales for transportation and refrigeration.

Immediately following the close of last fruit season the chief horticultural officer of California called a number of meetings in various fruit centers for the purpose of directing attention to evils resulting from indiscriminate and faulty packing of our green fruits and lack of care in throwing out and rejecting all imperfect, wormy or defective specimens. These meetings awoke widespread interest, were well attended, and resulted in steps being immediately taken to secure the standardization of our pack. The plan was followed out in several districts, where salaried inspectors passed upon the fruit before it was loaded into the cars, allowing nothing to go forward that did not conform with the standard established. The result of this work has been plainly apparent throughout the season, purchasers being well pleased and rejections much less frequent than in past years. We believe that a very considerable portion of the good success attending the marketing of our crops this season is directly traceable to this work and we extend our congratulations to State Commissioner of Horticulture Jeffrey for his farsighted action which has resulted beneficially already and with its universal application will work a lasting benefit to the whole industry.



THE CALIFORNIA ALMOND GROWERS' EXCHANGE.

By Manager J. P. DARGITZ.

In reporting the accomplishments of the California Almond Growers' Exchange for the first time we should probably preface our remarks by saying that we have really only a partial year's work upon which to base our report.

The work of organizing was begun on the 18th day of March and at the present time we have a good portion of the crop still unsold. Therefore, the report must be only a partial one. It is not necessary to go over much ground in detailing the events which led up to this organization.

The almond growers having for several years attempted in various localities to effect something of an organization to secure more stable markets and better facilities for marketing their product, about five different local organizations had been working for one or more years. and they were brought face to face with the fact that working independently of each other their product was constantly in competition with itself as far as the grower was concerned. In order to overcome this it was deemed advisable to attempt an affiliation of these various local associations into a central exchange, or marketing body. In carrying out this idea eleven different associations were organized and incorporated under the new law as non-profit cooperative associations. These through equitable basis of representation were joined together in the California Almond Growers' Exchange as a central or marketing This body was also incorporated on a plan similar to the local associations all of them being non-profit cooperative organizations, wherein the individual grower becomes the unit in determining and controlling the policies. The work and scope of the central body are limited to the securing of supplies and information necessary for its various members and the members of its affiliated associations, and giving the best instruction in regard to a uniform and properly prepared product for market. Also determining the market conditions of the world affecting the almond crop and place these conditions before its members, and marketing the crop.

We have recognized the inability of each individual member to obtain for himself all this information, but by coöperation it is possible to gather such information and place it in a condensed form before its various members. Heretofore it has been a very easy matter for certain interested parties to determine quickly the result of any particular crop damage in foreign almond growing countries, and then, before the grower in California could become aware of these conditions, said parties would send their agents out through the country and buy the growing crop at a price which means a handsome profit to the people who buy. The result of this organization will be in the future to prevent any such action as the members will be posted promptly in case

of anything of this kind.

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Starting out as late as we did to effect the organization, it has been considered very good work to have secured about forty per cent of the tonnage of the State for this association during the first year. course, we expected many obstacles would have to be met and overcome, and we have not been disappointed in the number of these obstacles that we have found in our path. It was only natural that those who had profited by the past methods of handling the almond crop of this State should be disinclined to give up the business which they had established, and which meant no inconsiderable income to Therefore, efforts were made to head off the organization by starting out to buy the growing crops from the various districts as early as the last days of March, and paying unusually good prices. The growers in many cases were unaware of the efforts at organization. More of them were unaware of the damage to foreign crops, and in some cases failures of former efforts at cooperative marketing on the part of growers of various fruits were flaunted before the eyes of the almond growers by interested parties, and they were very earnestly assured they needed to be cautious. In addition to this, we have had the largest almond crop in California this year that has ever been produced and this, naturally, would have meant low prices. We have had political disturbances throughout the nation practically equal to the presidential campaign, and this has had its effect to keep down prices, yet in the face of all these disturbing elements we have been able to steady the market and maintain prices so that we feel growers have profited to the extent of between \$100,000 and \$200,000 on their crop this year. Under prevailing conditions affecting the markets, if it had not been for the work of this exchange in maintaining prices and steadying the market, we feel sure that prices would have been unusually low, and operators, who bought as a speculation in March and April, were fortunately able to protect themselves because of this organization. The growers who remained outside of the organization. as is often the case, were able to profit by its work, being able to sell at good prices established by this association their product, while members of the association had to hold their crop in the warehouse in order to maintain the market.

However, this is all history now and practically all of the unsold portion of the crop of 1910 is in the possession of this exchange, and, therefore, there should be no thought of demoralizing the market by forcing sales indiscriminately. The present holdings are not large, being very much less than 500 tons, and every report of market conditions and supplies, which we are able to gather, indicates that the holiday trade will clean up everything in the dealers' hands and then they will call upon us for the stocks we are holding. It is a self-evident fact that when the trade is slow to buy if we press the matter of selling we will break the market. This we can not afford to do. It would be equally injudicious for the growers and for the trade. The trade is, in a measure, cautious about buying, fearing that the growers will not hold their product long enough to meet the legitimate market demands, but that becoming frightened they would dump everything on the market and so utterly demoralize the same. But in all the history of cooperative organizations no greater spirit of loyalty has been shown than by the members of the California Almond Growers' Exchange.

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Here are the conditions in a nut shell: The general business of the country is cautious, buying only for the immediate needs; double the average crop of the State; doubt as to our ability to maintain prices; our efforts to maintain the prices which the legitimate trade of the country warrants in the face of supply and demand.

Suppose with a sluggish market that we as growers would have dumped all our holdings on the market at once, being twice what the trade wanted, and what would have resulted? Prices would have dropped 3 or 4 cents a pound, which would have meant more than \$200,000 to the almond growers of California on this year's crop, and that is exactly what would have happened in our judgment but for the California Almond Growers' Exchange.

If there is any serious doubt about this, there is yet time to prove it. Put our 450 tons of unsold almonds on the market and force a sale in the next ten days, and the proof will be evident. But by holding on and selling as the trade requires, we can close out all our holdings in the next three to four and possibly five months at maintained prices, and the growers will have won the day.

We have learned some things in this our first year's experience.

First—We must have uniform bleaching and grading of almonds. This can be done by each local association having its own warehouse and bleaching plant, so that one competent man for each association can do the work. As this will save at least one third the expense of having it done by the individual grower, it ought to be brought about.

Second—A better marketing arrangement, perhaps our own brokers. Third—Some arrangement by which we can advance one half the value of the crop to the grower upon delivery whether it is sold or not. This is done on grain and should be done on nuts and will be very likely hereafter.

This organization must not be permitted to buy for that would permit of speculation, which spells ruin to any coöperative marketing organization.

This is but a culmination of long efforts, which have been working for the betterment of the tillers of the soil as well as the orchardist and vineyardist. Generally speaking, the period from 1785 to 1850 represented the idea of preparation for the betterment of the agriculturists and horticulturists through coöperation. The next period covering the years from 1850 to 1870 has been indicated as the period of agricultural exhibitions of county fairs, which was a step in the direction of improving the product of the field and orchard. From 1870 to 1893 begun the period of organization among this class of people.

A mistake was made in beginning at the top instead of the bottom for the work of organization, and an attempt to centralize power and to form organizations that were too large and unwieldy to be properly handled without experience, led to the necessity of having a different form of organization. Since 1893 is the period in the United States which has pointed to the work of coördination of various organizations, that is making a unit of the individual grower and then local associations of individual growers being generally gathered in large coöperative movements.

Not the least of the beneficial effects resulting from the work of the California Almond Growers' Exchange is the gathering of marketing

conditions from the world at large. The selling or actual marketing is but the conclusion of the work. It has been deemed essential that we gather information from various almond growing districts of the world, which shall be utterly unbiased and perfectly reliable. The International Institute of Agriculture of Rome, Italy, has afforded us this oppor-Through the Honorable David Lubin, the United States representative to this International Institute of Agriculture, we have been able to gather very much information and with his advice, and by the efforts of Congressman Kahn of San Francisco, we have been able to get instructions from the departments at Washington requesting the International Institute of Agriculture to secure and prepare for us reports concerning the almond growing sections of the world, and we hope within two years to have this feature of the work so well organized that no climatic or other conditions affecting the almond crop for better or worse in any country of the world, but will immediately become the property of every other almond growing country. This will unquestionably work out the problem of determining the actual market value of the almond crop of California in any year on the basis of supply and demand of the world.

It is not our purpose to create a trust, nor is it our purpose to unduly inflate prices, but it is our purpose to determine what the almond crop should be worth in any given year and to steady and maintain such a price. Whenever the grower, the consumer, and the legitimate tradelearn just what this means they will all favor the proposition, and we look to see the day when almond buyers and almond brokers will be just as much pleased with the work of this exchange as will the almond producer and the almond consumer.

THE CALIFORNIA RAISIN INDUSTRY.

By GEORGE ROBERTSON.

California, within a generation, has made a world-wide reputation for all its fruits, and produces more than one quarter of all the fruit raised in the United States, New York being second, but a long way behind. Practically all dried fruits produced in the United States come from California.

That there is still ample room for the further development of the fruit industry in this State is proved by the fact that in 1908 we imported foreign fruit and nuts to the value of \$37,354,000, and in 1909 to the value of \$31,110,000, while the exports of domestic fruit and nuts were only about half these sums, amounting to \$14,338,000 in 1908 and \$16,568,000 in 1909.

OUR TEN BEST FOREIGN CUSTOMERS FOR FRUIT AND NUTS IN 1909.

	Value.
United Kingdom	85,400,411
British North America (Canada)	
Germany	2,506,051
Netherlands	1,349,769
Australia and New Zealand	
France	325,579
Belgium	320,478
Cuba	252,182
Mexico	190,451
South America	

The effect of the great expansion of the California raisin crop has had the satisfactory result of greatly decreasing the imports of foreign raisins, which, in 1884, amounted to nearly 54,000,000 pounds, but in the last three years have only averaged about 6,000,000 pounds, while the exports of California raisins have increased from 3,000,000 pounds in 1898 to nearly 8,000,000 pounds in 1909.

The quantity of Sultanas imported into the United States is not so great as is generally supposed, the average for the last two years being under 2,000,000 pounds. The imports of currants have remained remarkably steady for the past fifteen years. The largest quantity imported was 52,000,000 pounds in 1894, when they were duty free, and the smallest the following year when the duty was 1½ cents per pound, with the result that the imports fell off to 16,000,000 pounds. As a matter of fact, currants stand in a class by themselves, and do not compete to any extent with raisins.

	Sultanas imported.	Currants imported.
Year.	Pounds.	Pounds.
1902	2,030,374	36,238,976
1903	3,055,398	33,878,209
1904	3,850,444	38,347,649
1905	1,685,275	31,742,919
1906	7,372,568	37,078,311
1907	1,052,519	38,392,779
1908	1,638,028	38,652,656
1909	2,760,386	32,482,111

HISTORY OF THE PRODUCTION OF RAISINS IN CALIFORNIA.

The grapevine has long been cultivated in California. The Mission Fathers were the first to grow successfully the European grape in this State. They had but one variety, which is still largely grown, and is known by the name of the Mission grape. It was planted at San Diego in 1769, San Gabriel in 1771, Los Angeles 1781, and Santa Barbara in 1786, and was largely used for wine making. It was nearly eighty years later before the raisin grape was introduced into California.

THE FIRST INTRODUCTION OF THE RAISIN VINE.

In 1851 Colonel Agostin Haraszth of San Diego grew some Muscatel vines from seeds of Malaga raisins. In March, the following year, he imported the Muscat of Alexandria from Malaga, Spain, and ten years later, during a visit to that place in September, 1861, he selected cuttings of the Gordo Blanco, which were afterwards grown and propagated in his vineyard in San Diego County. He was thus the first to introduce the raisin vine into California. Another importation of the Muscat of Alexandria was made in 1855 by A. Delmas, and planted at San Jose. G. G. Briggs of Davisville also imported Muscatel grapevines from Spain, while R. R. Blowers of Woodland, Yolo County, started one of the first raisin vineyards in 1863 from Gordo Blanco cuttings received from Colonel Haraszth.

EARLY VINEYARDS IN SOUTHERN CALIFORNIA.

In the more southern parts of the State, Riverside entered the field in 1873, when Judge John Wesley North, the founder of the colony of that name, first planted the Muscat of Alexandria; but grape growing in that district did not become general until about three years later. In El Cajon Valley, San Diego County, the same variety of raisin vines were planted by R. G. Clark in 1873, but most of the vineyards in that county were not planted until 1884-86. In Orange County raisin grapes were also planted about the year 1875-76 by MacPherson Brothers, who, at one time, were the largest growers and packers in the State. Raisins were also produced in San Bernardino and Los Angeles counties in former years, but owing to the ravages of what has since become known as the Anaheim disease, which destroyed thousands of acres from 1884 to 1889, growers became discouraged, and oranges and lemons have taken the place of vines almost entirely.

BEGINNING OF THE RAISIN INDUSTRY IN CENTRAL CALIFORNIA.

In 1876 W. S. Chapman imported some of the best obtainable Muscat vines from Spain for the Central California Colony in Fresno County, which, however, proved in no way different from those already growing in that county. Who produced the first raisins in California will probably never be satisfactorily proved. According to a report of the California State Agricultural Society, raisins were exhibited by Dr. J. Strentzel at the state fair in 1863. The first successful raisin vine-yards in the State were those planted by G. G. Briggs of Davisville, in Solano County, and by R. B. Blowers of Woodland, Yolo County. The former vineyard contained mainly Muscats of Alexandria, and the latter, Gordo Blanco. Both these vineyards produced raisins as early

as 1867, but it was not until 1873 that any quantity was placed on the market.

FIRST FRESNO VINEYARDS.

In the fall of 1873, Muscat vines were first brought to Fresno, when 25 acres of the Muscat of Alexandria were planted in the Eisen vineyard. In 1876-77 T. C. White planted the Raisina vineyard in the Central California Colony, Fresno, with Gordo Blanco Muscatels brought from Blowers' vineyard at Woodland. The following year Miss M. F. Austin planted her "Hedgerow" vineyard with the same variety, and Robert Barton also planted 25 acres of Muscat vines, but did not make raisins until later. The Butler vineyard, one of the largest, was first planted in 1879, while Colonel William Forsyth commenced grape growing in 1881-82. Most of his vineyard, however, was planted a year or two later.

PRODUCTION OF RAISINS DOUBLED IN FIVE YEARS.

Twenty-five years ago Fresno County commenced to take the lead, which it has kept increasing ever since, while southern California, especially Los Angeles and Orange counties, continued to fall off in their production, as illustrated by the following summary:

•	1885.	1886.	1887.	1888.	1889.
Riverside and San Bernar- dino 2 Los Angeles and Orange counties 2 Yolo 1 San Diego 1 Tulare Kern 1 Other smaller districts 1	2,140,000 2,580,000 2,780,000 3,40,000 200,000 120,000 240,000	4,500,000 3,900,000 3,600,000 1,500,000 500,000 	7,000,000 3,800,000 1,700,000 2,500,000 400,000 200,000 16,000,000	8,800,000 5,400,000 840,000 2,500,000 800,000 220,000 	9,500,000 5,300,000 160,000 2,400,000 150,000 300,000 80,000 500,000

These figures are only an approximation.

Kings County does not appear in this list, as it was then part of Tulare County, not being organized into a separate county until 1893. Within the last twenty years great changes have taken place. Orange and Solano counties no longer produce raisins; Los Angeles County very few; Yolo County, which at one time produced Sultanas and Thompson's Seedless in considerable quantities, now finds it more profitable to ship them as table grapes; while the large vineyards in Riverside and San Bernardino counties are more devoted to wine grapes. Of the fifty-two counties in California, only ten produce raisins in any quantity:

TWELVE COUNTIES WHERE RAISINS ARE PRODUCED—(CROP OF 1909).

·	Pounds.
Fresno	83,404,000
Tulare	
Kings	. 18,000,000
Sutter	4,500,000
San Bernarding	3,600,000
San Diego	3,200,000
Madera	2,400,000
Yolo	. 2,000,000
Kern	1,100,000
Colusa	. 900,000
Los Angeles	600,000
Riverside	. 296,000
Total	140,000,000

With the view of presenting an impartial statement, every county (with two exceptions, where no statement can be obtained) has here been given the full amount of raisins it claims to have produced, which in some cases appear to be very liberal estimates. Butte County reported the production of 61,350 pounds last year, and Tehama County 14,000 pounds, but the amount is too small to be taken into account. A good crop in Fresno County is nearer 90,000,000 pounds than 83,000,000, or more than the other thirteen counties combined, and the proportion is between 64 and 70 per cent of the whole crop. Fresno County has only been credited with the balance of the crop and the total for the latter county is decidedly conservative. However, with such an overwhelming predominance. Fresno can well afford to be generous. These figures show that Fresno County now produces about sixty per cent of the raisin crop, or nearly double that of Spain, which has held the lead for centuries, the Fresno crop first being equal to the Spanish In the early days Placer and Shasta counties produced raisins on a small scale. When raisins were first shipped east in any quantity, it is impossible to say. In 1875 New York reported that up to November 1st, 6,000 twenty-two pound boxes of California raisins had been received. About 1888 Fresno appears to have shipped a considerable quantity for the first time. In 1887 the market reports state that "Fresno raisins of excellent quality are now on the market, especially from the Butler and Forsyth vineyards." The large growers did their packing in those days. While comparatively a few years ago Colonel Forsyth, who was the leading pioneer in seeding raisins, then only in the experimental stage, first put seeded raisins on the market, it was with some difficulty that about 20 tons were disposed of, and no one then imagined the industry would grow to such large proportions. Pacific Coast Seeded Raisin Company in Fresno can now turn out 300 tons a day, besides other small plants elsewhere. In the last fifteen years the output has increased from 700 tons to nearly 30,000 tons.

RAISIN GRAPE VARIETY.

For more than half a century many varieties of grapes have been brought into California from all the grape producing countries of the world. Coming from different countries they have many names. Some of these have been preserved, some lost, and others have received local appellations. The varieties of raisin grapes are few in number—the white Muscat of Alexandria, the Muscatel, Gordo Blanco—held the first

place; the White Malaga and Feher Szagos are used to a small extent; the seedless varieties are the Sultana (which is grown extensively near Smyrna in Asia Minor and was first brought to California by Colonel Agoston Haraszth in 1861), and Thompson Seedless, so named by the Sutter County Horticultural Society after W. Thompson, Sr., of Yuba City, who procured the cuttings in 1878 from Ellwanger & Barry of Rochester, New York. It was by them described as "a grape from Constantinople, named Lady Decoverly," and is now to be found in all parts of the State. Professor Bioletti of the University of California. and other high authorities, consider the variety identical with the Sultana but an improved variety. The growth of the raisin industry in California has been remarkable. Some thirty-six years ago the raisin crop was estimated to be worth only \$4.000. For the first six years prog-In 1879, the crop first exceeded one million pounds; in ress was slow. 1885 it amounted to over nine million pounds, and the following year jumped up to fourteen million pounds, and continued to increase steadily until it has reached the enormous total of 140,000,000 pounds.

THE PROBLEM OF MARKETING THE CROP.

The home trade of any country is always the most important and the most profitable, as it gives support to a greater quantity of productive labor in that country, and increases the value of its annual produce more than an equal capital employed in foreign trade. When the produce of any particular industry exceeds the demand of the country, the surplus must be sent abroad. Our exports of raisins, although not very large, have been increasing the last year or two, and now exceed the quantity imported.

In 1909 the export of raisins to different parts of the globe was:

EuropeNorth America (Canada)South America	6,374,222 32,253
AsiaOceania (Australia and New Zealand)	1,165,954
Africa	
10tal	1,000,101

Canada is by far our best customer, consuming upwards of 5,700,000 pounds. New Zealand comes next with 1,100,000 pounds; Mexico,

177,000 pounds; and Japan, 105,000.

According to high authority, there are good times coming for California raisins and other fruit growers with the opening of the Panama Canal. The London Times, in a special article on this subject, recently published, says: "America will control the main trade of the southeastern Pacific after the completion of the Panama Canal. The center of gravitation of the commercial world will be changed. The effect of the canal upon the import trade of Australia and New Zealand will be that it will render those markets much more accessible to the manufacturing states of America, and will therefore make American competition more keen in these colonial markets than it is at present. But the most revolutionary change will result from the fact that California wines and fruits will be able to compete more successfully in European markets."

Efforts have been made in recent years to increase the consumption of raisins in the United States, and there is no reason why they should not prove successful, as there is ample room for a greatly extended use of this wholesome fruit. The United Kingdom consumes annually about 73,000,000 pounds of raisins and 142,000,000 pounds of currants, or a total of about 215,000,000, equal to five pounds per capita. In the United States, the consumption is less than one pound and a half per capita. In other words, if the American public appreciated raisins, as they have been for centuries in Europe, the acreage in raisin grapes might be more than doubled without causing overproduction.

In order to give stability to the raisin market, it must have powerful and well organized support behind it; in other words, some association or corporation to warehouse and hold the goods, only supplying the market according to the demand. Sooner or later it must come to some form of association or coöperation; it is the growers' only hope for paying prices. In recent years there has been a large carry-over from the old crop, which has to be disposed of early in the season, and the markets in consequence have been more or less demoralized. Another factor in the situation is that many growers, being in want of ready money, are in a hurry to sell at once, which still further helps to depress prices.

ADVERTISING AND PACKING.

In order to dispose of our raisins (or other fruits) much may be done through judicious advertising, but this is an art that requires men of experience to make it a success. During the last two years the Fresno County Chamber of Commerce has devoted a considerable amount of time and money to bring raisins to the notice of the public, by having a Raisin Day on April 30th, and by exhibits in the East and elsewhere. Another matter of the utmost importance is to insure that only good sound fruit is shipped, and that the packing, both as regards quality and weight, is in accordance with the description, for it is well worth while to study the requirements of your customers, especially those abroad. It is a common complaint in consular reports that this matter is seldom considered. If these points are attended to it may give you the key to new or larger markets, and make the open door open wider still.

We may well take notice of Canadian methods which have met with great success. A few years ago an act was passed, among other provisions, prohibiting the use of any designation such as "finest," "best," or "extra quality," unless the fruit was all sound, of one variety, properly packed, and unless not less than ninety per cent was entirely free from any defect. The faced or shown surface must be representative of the quality throughout the package.

Professor Edmund R. Lake of the Oregon State Agricultural College stated a few years ago "that the chief objection to the products of the Pacific coast is that it is not uniform in size, quality and pack, and that there is no certainty that an order placed and filled satisfactorily one year can be duplicated the next on a large scale."

In former years, raisins, especially in wet seasons or when they had been badly sanded, have been washed or "processed," and thus rendered so inferior that packers have not ventured to ship them under their



own brands. This is a short-sighted policy which causes untold damage to the raisin industry, and undoes the value of any amount of advertising. Under no circumstances should inferior or damaged raisins ever be packed; they should be sent to the distillery, fed to hogs and cattle, or even destroyed. In the early part of this year there were two convictions in the east under the pure food law, where the raisins were stated to be full of dirt and unfit for human food. Such cases inflict an immense amount of damage to the industry concerned.

Another drawback to a holdover crop is that raisins, unlike wine, do not improve by keeping; quite the contrary; we sometimes keep raisins too long, but dispose of the wine too soon. The best always pays the best. There is not a commodity in commerce in which some firm or brand does not take the lead of all others. You all know from experience that in food, drink, clothing, and articles of every description, there is always some name, or make, that commands the highest price. Why should this be so? The answer is that the majority of the public are always prepared to pay a higher price when they know that they can depend on obtaining the best. Another disadvantage the raisin industry labors under is having too many brands, and some of them with names that are the reverse of appropriate—and there is a great deal in a name. The Pacific Coast Seeded Raisin Company alone packs raisins for various firms, in upwards of 500 brands.

With regard to foreign trade, all descriptions should be printed in the language of the country for which they are intended; the extra cost would be small compared with the results which would be obtained. We all realize that cheaper transportation for small packages of merchandise would be of the greatest value in this country to producers and consumers alike. A large trade is carried on between the United Kingdom and British colonies, especially, by means of the parcels post. As an illustration, I may mention that a few weeks ago I sent a box of raisins to London. The raisins cost \$1.75; the express charges amounted to \$5.50. Such charges are prohibitory and destroy trade which might otherwise be obtained.

I am not here to-day to "boost" either Fresno County or the California raisin industry. "Boost" is an ugly word, and means in most cases exaggeration. It is far better to present facts and figures in a conservative manner, and allow those interested to draw their own conclusions. Any individual who has been led to expect too much by glowing reports, and finds the result much below his expectations, becomes the worst advertising medium in the world; it is far better to understate the prospects, and it pays to do so in the long run. To sum up, it may be safely predicted that good raisins, well packed, will always be in demand. That the raisin industry has a great future before it there can be little doubt, but to put it on a sound basis, there must be organization or coöperation, which is the only thing that will solve the difficulties which now confront this great industry.

COUNTRY LIFE.

By W. A. BEARD, Member Country Life Commission.

The Commission on Country Life was created by former President Roosevelt in August, 1908, and charged with the duty of investigating and reporting to him the condition of country life in the United States. The members were Dr. Liberty Hyde Bailey, dean of the Agricultural College of Cornell University, Mr. Henry Wallace, editor of Wallace's Farmer," Dr. Kenyon L. Butterfield, president of Massachusetts Agricultural College, Mr. Walter H. Page, editor of "World's Work," and Mr. Gifford Pinchot. Later, the President appointed two additional members, Mr. Charles S. Barrett, president of the Farmers' Union of America, and myself.

The inquiry covered all states of the Union. It included a series of public hearings in various parts of the country, farmers' schoolhouse meetings, the results of which were forwarded to the Commission, at Washington; a voluminous correspondence, including more than 100,000 replies to a set of questions propounded by the Commission and sent broadcast by the United States Department of Agriculture. The answers to questions were tabulated by the Census Bureau. In addition to these sources of information, detailed studies of assigned subjects were made by individual members of the Commission.

Nearly two years have now elapsed since the report of the Commission was placed in the hands of the President and by him transmitted to Congress. During this period there has been much discussion of the report, followed by organized action in many parts of the country substantially along the lines recommended. The inquiry has served to direct attention to a real need in the country life of the nation and there

is in progress to-day a movement designed to meet this need.

Numerous state and interstate conventions have been held for the purpose of discussing country life deficiencies and remedies. Several states have country life commissions, several of the states of the Pacific Northwest have an interstate country life commission and an organized movement that is well advanced. All over this country there are manifestations of interest in the movement, one of the most important being the rapid advance in the development of agricultural education in the public schools and increasing interest in the redirection of the rural schools to the end that they may better serve the interests of the open country. Teachers' associations, as well as other bodies, are active in the movement to develop the latent possibilities of the open country as a place of permanent abode.

So much for the general situation: I shall now endeavor to define the condition which seems to call for remedy. No doubt many good people who have not given deep thought to this matter wonder what this

country life movement is all about. They know the farmers are prosperous, more prosperous than ever before, and fail to see where anything is particularly wrong when the farmers are making money faster than ever before in the history of farming in this country. The fact is, however, that prosperity is not the answer to the country life problem. On the contrary, it is often the largest factor in the development of the very conditions of which complaint is made.

Country life is less inviting and less satisfying than city life, and the country life problem is to develop in the country standards of living that approximate in all that goes to make life worth while, the standards

of the town and city.

The problem is important because it is essential that there be maintained in this country a strong, virile, and distinctively American population. This fact was strongly emphasized by President Roosevelt in his message to Congress transmitting the report. He said: "We need the development of men in the open country who will be in the future as in the past, the stay and strength of the nation in time of war, and its guiding and controlling spirit in time of peace."

The fact that country life shows marked deficiencies as compared with city life will hardly be questioned. In order to bring the matter forcibly to your attention, however, I am going to ask you this question: Do you consider the country as attractive as the city as a place of permanent abode? Does your neighbor so consider it? Do your children and

your neighbors' children so consider it?

Some of us who are fond of boasting of the manifold advantages of California may find it a trifle difficult to accept the statement that there are deficiencies in the country life of this State as well as in that of the older and less desirable commonwealths. Such deficiencies do exist, however, and we must not blind ourselves to the fact. Here, as elsewhere, the boys and girls reared in the country are leaving it for the city while alien people are taking over the land. Country life in California is undoubtedly more attractive than country life in many other states, but it is less attractive to those born on the soil than city life in California.

In the solution of the problem and the development of a new country life, California should take a leading part. In many respects the agricultural portions of this State present features of attractiveness that are not approached in any other state of the Union, and to this may be added the advantage of a productiveness equaled only in the tropical regions. We are assembled in the very heart of the great valley of California, destined to become the productive area on the American continent, and it would seem that here is the place to develop a rural civilization that will comprise the best the world knows, a country life that will be at once the most inviting, the most satisfying, and an example to country dwellers everywhere.

That this great valley and other agricultural sections of this State will be prosperous and populous is certain. We must not be content, however, with assurance of prosperity merely. The problems of country life must not be confounded with economic problems. The country life problem is of educational, social and other advantages, of suitable environment, of ideals; the economic problems are of dollars and cents.



It is true that a degree of prosperity is essential to the development of a satisfying life in either the city or the country, but prosperity alone is often a bar to the development of the best country life for the reason that the prosperous farmers move to town.

The movement to town impoverishes the country. It removes an important and valuable social element, and it removes the incentive to school and road improvement. It takes to the cities and towns the wealth produced upon the farms and aids in the development of superior

advantages there.

In this State we have before us an era of settlement. The greater part of the tillable lands of California are undeveloped or only partially developed, and the resources of these lands are the principal basis of our expectations of increase in population and wealth in all that goes to make a great and prosperous commonwealth. Our country life in the fullest sense is yet to be developed and we are fortunate, therefore, in having called to our attention thus early the need of concerted and organized effort to develop in the country a community life approximating that of the cities.

I have come here to invite your attention to the opportunity which we of California have to lead in a work that means much to this State and more to the nation. The movement from the land to the city must be checked or reversed. The young men and the young women must be taught the value of the advantages which the country offers. They must learn that the prizes of life are available to them upon the farms and they must be interested in the development of the latent advantages

of country living.

The time was when the farmer was the leader in the important affairs of this country, and the farmer is coming back. The business of farming is becoming more profitable every year, and will continue to do so because the land area can not be increased while the population must increase. The farm affords opportunities for self-development that are not usually found amid the rush and push of modern city life; it affords opportunity for study and reflection, and these must be the foundation of any real success in life.

We must not view this problem, however, from the standpoint of the welfare of the farmer only. We must consider his contribution to the welfare of the nation at large. A home owning population on the land is and must be the real foundation of the greatness of this republic. To the end that men may be content to remain on the land and rear their families there, country life must be developed to its highest possibilities.

This consideration should impress itself seriously upon us of California. Here we have an alien and unassimilable race that seeks to acquire land in this State and already enjoys a practical monopoly of at least one producing industry. We want neither alien ownership nor a system of landlordism, but a healthy, American and home owning rural population, and the way to assure this is to develop the capabilities of our delightful climatic conditions along lines already approached in some of the most advanced districts of the State.

The problem, both here and elsewhere, is largely of education, and the place to begin is with the educational system. The place to educate the young people to an appreciation of the opportunities which the



country offers is in the country schools. Our schools are not doing this. Our country schools are not seeking to inculcate country ideals or to develop country spirit, nor do they emphasize in any essential way the things of the country. In the country schools, as elsewhere, the tendency is toward the city and the things of the city are exalted.

All this is of interest to you, fruit growers of California. You represent the best intelligence engaged in the farming business and you can do much to further this movement in this State. I have no more interest in this than any other person in this room, and I have no appeal to make to you. I have stated the facts; your interest will suggest the action to be taken.

SQUIRREL ERADICATION.

By Surgeon Rupert Blue, United States Public Health and Marine Hospital Service.

The extermination of squirrels has become one of the serious problems of this State. The interest in the subject, prior to 1907, was almost wholly an economic and financial one. Since that date evidence has been collected which proves that this animal is responsible for the transmission of plague and the chief cause of its continuance in this country. As a result, the sanitarian has become interested in the natural history of the ground squirrel, and has joined hands with the economic interests in the war of extermination.

A statement of the annual losses due to these animals should not be necessary. The fruit growers are perhaps better informed on this subject than the general public, so I will mention only a few facts in this connection. In a recent paper Dr. Merriam, of the Biological Survey, stated that they inflict injury on all classes of crops, and rank among the most destructive of our native rodents. The amount of the annual loss to agriculture was given as \$10,000,000.00. This we can readily believe in view of their wide distribution and great numbers on the Pacific coast.

REMEDIAL MEASURES.

The necessity for cooperation and organization in the work of squirrel destruction is fully appreciated. Without the assistance of the farmer, orchardist, and landowner generally, success will be impossible. With a view of securing the personal cooperation of property owners, a statewide campaign of publicity and education has been inaugurated by the State health authorities. It is pointed out, in the literature issued, that the project should be taken up for the purpose of protecting the lives of the citizens and also to save the crops from destruction. The viewpoints of both the sanitarian and the agriculturist are thus considered.

A plan of campaign has been proposed which places the legal responsibility upon the shoulders of the county boards of supervisors. As they are the source of authority, all official work should be done with their consent and coöperation. It is the purpose of the health authorities, both Federal and State, to enforce the State law of March 13, 1909, called an "Act for the extermination of rodents." It is believed, however, that the landowner will willingly take up the work, in view of the benefits to be gained by destroying the pests.

The Federal Government, in aid of the State Health Board, has made a liberal appropriation, and will render further assistance by the detail of experienced medical officers whose time will be given wholly to the work. It is realized that the problem can not be solved in a year, or at any fixed time; therefore plans have been made to place the eradicative procedures on a permanent basis. With this object in view, a thoroughly equipped camp will be established in the squirrel-infested region, where practical instruction will be given in field methods. Although designed primarily for the training of our own employees, this camp may be utilized by farmers and others who may desire such instruction. The expense of the camp will be charged against the Federal fund.

The full details of the plan of campaign may be obtained by writing to the Federal laboratory in San Francisco, or from the Secretary of the State Board of Health at Sacramento.

METHODS OF GROUND SQUIRREL EXTERMINATION.

One method, applicable during the wet season when the green grass is out, depends upon the use of liquid bisulphide of carbon, which is put in the holes. A second method depends upon the use of poisoned grain. A common method of applying bisulphide is as follows: From one to three days prior to the application of the poison all squirrel burrows in the area to be poisoned are well stopped with earth. The holes found open upon arrival of the poison squad will indicate to them the burrows containing squirrels. Two men working together can apply the poison most rapidly and economically. One man is provided with a supply of "waste," "sacking," or other absorbent material, divided into a number of small balls about half the size of the first. The bisulphide is carried in an ordinary one gallon oil can, and refilled from time to time from a supply kept in a cool place out of the sun. He is supplied with matches. His "pardner" carries a long-handled shovel. On arrival at on open burrow, a small ball of waste is saturated with two ounces of bisulphide, dropped deeply into the burrow and a match After a moment's time the man with the shovel stops with earth this burrow, and all other burrows near from which the gas escapes. On subsequent inspection of the field all opened burrows will indicate holes lacking effective treatment.

During the dry season some form of grain poison with strychnine will probably serve the purpose best. A formula for the preparation of poisoned barley is as follows:

Whole barleyStarch paste		
Strychnine sulphate	1	ounce
Saccharine	1	dram

The barley is placed in a receptacle large enough to permit thorough stirring (as a wash tub). One pint of water is then brought to a boil and sufficient laundry starch (about two tablespoonfuls dissolved in a little cold water) is slowly added to form, when well cooked, a paste about the consistency of cream. The strychnine (first powdered, if in crystals) and the saccharine are now added to the hot starch paste, and the mixture well stirred until dissolved. While still hot this is poured over the barley, mixed well, and the whole put aside for several hours before using. This formula is recommended because of its simplicity, cheapness, and effectiveness. Scatter a teaspoonful along the squirrel trails or on hard bare places near the holes. The poison should not be placed in heaps on the soft mounds at the mouths of the holes. It will probably be found most efficient if scattered early in the morning, between the hours of three and seven o'clock.



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AGRICULTURAL EDUCATION IN THE COMMON SCHOOLS.

By EDWARD HYATT, State Superintendent of Schools.

This, I think, is a fact: that nearly every one to-day believes that our schools must become more closely allied to the industries by which our people live. More particularly, our California schools must be open to the genius of agriculture. Our gold will be exhausted; our oil will all be pumped out; our forests will be gathered to their fathers; all with a reckless haste and improvidence that we can not stay. But the soil will be more permanent. By its fruits California must always, in the large way, stand or fall. Our power and prosperity in the future depend upon the skill and the intelligence by which our people are able to practice the arts of agriculture and horticulture.

It is easy to agree that the schools shall take in agriculture. But it is tremendously difficult to find out just how this may be done. No one knows as yet. There must be myriad experiments and a thousand grotesque failures before we succeed. The casual observer does not dream of the difficulties and stumbling blocks in the way. It is the work of years to get a new idea really planted and growing in the set conservatism of a social institution like our school system. There is danger, when we professional educators take hold of a live and vital thing like agriculture, that we squeeze all the real live interest out of it in order to teach it in a conventional way. When it becomes embalmed in regular text-books, perfunctory recitations, and periodical examinations, it fails of its true mission. It does not get there. If it would truly succeed, ways must be found to keep it alive, to keep it in touch with country life, to invest it with the realities of extracting a living from the soil. And mark you this: the teachers of agriculture are not yet bred. Hundreds of years have been spent in growing good teachers of mathematics, literature, language—let us not run away with the notion that we can build up an agricultural Rome in a day. It is necessary to have some foundation for any kind of building. highly desirable to instill a spirit of sympathy for agriculture into the minds of all the people and to bring them into actual contact with the agricultural life. For many generations everything in education has tended away from the farm. The district school never does one thing in all its curriculum to prepare the boys and girls for a living on their fathers' farms. It always heads them rather toward clerkly or professional pursuits in the town or city.

· Now the object of this paper is a very simple one, that may be tersely stated. It is to call attention to the fact and to emphasize it, that we must find something different from the traditional text-book method of approach if we would really get the genius of agriculture into the public schools; to name two or three methods of approach that are different, and to suggest that the best plan for a school to undertake agriculture is by finding ways to cooperate personally with the nearest agricultural industry, by actually entering into its spirit and its labors.

A movement has started in the prune orchards of the Santa Clara Valley that bears directly upon these educational questions. The idea

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is to enlist the interest and the labor of the children and the people of the villages and towns in the harvesting of our perishable fruit crops, paying them full market wages for their work, furnishing them safe and attractive camping places, facilitating their coming and going, and giving them a season of healthful, active outdoor life. This is a practical course of study in California agriculture that may well command the coöperation of the educational forces of the State. The school term may very well begin and close so that the children and their parents can take part in the chief industry of the neighborhood. The curse of the fruit grower is the lack of labor in the gathering of his crop. This it is that brings the indigestible foreigners upon us, Japanese, Hindus, Chinese. This it is that is forcing much of our richest lands into the hands of aliens. The safety of our nation lies in having our land owned by our own people who earn their living from the soil.

It is a splendid thing to see the schools closed and the villages depopulated during the harvest season; to see the parents and the children living outdoors for a time and helping to pick the hops, gather the grapes. dry the peaches, take care of the prunes, apricots, tomatoes, and all that. It makes stronger, happier, wholesomer people. Everybody may well There is no loss of dignity in it. It advances the interests of California's great industry, the industry by which we must live for centuries into the future, with the world for a rival. It is truly educational, in the best and highest sense. It is worthy of remark that Homer Craig, an orchardist at Campbell, has been able in this way for the past three years to avoid the use of Asiatic labor. By making things agreeable and attractive for families to come to him for a summer outing, while working in the fruit, he finds that enough labor comes to him to harvest his crop; and this without any cooperation on the part of the school authorities. There is something in this work worth looking into.

The raising of a school garden is a most delightful and practical method of approach. Not all teachers have the knowledge and sympathy that make for the highest success, but nearly all come of ancestry that lived by the soil; and if their minds are open, their hearts willing, the old interests will come back. Not all rural schools are adapted to gardening, but many of the most successful school gardens are raised at the homes of the children.

There is no higher or more inspiring opportunity for a genuine teacher than to lead some children in the preparation and the planting of a piece of ground, be it large or small, and in the finding out about the plants and the insects that come of the venture day by day. There is no finer enterprise for a group of young people to engage in, under the inspiration of a genuine teacher, than to rent a bit of ground, to prepare it, plant it, care for it, market its product, keeping strict account of every step. That is experience; it is real life.

Most of the things we now teach would group themselves about it and grow out of it—arithmetic, bookkeeping, nature study and science. And let us remember that the thing does not even need to be a commercial success in order to be successful educationally. I take it that there is not a person within these walls who has succeeded with every job he tackled. Failure is as natural as success—probably more so. If the bugs get away with the crop—if neglect of a certain point cuts out the profit—if the season was unfavorable—if the frost came too



late—was the enterprise then destitute of value, and a fair mark for clumsy and thoughtless wit? By no means. It is real life, and it is doing the work it set out to do, no matter whether the actual returns were large or small.

It is the experience of other states that the most efficient approach to agriculture is by the organization of boys' and girls' agricultural clubs. These are formed for some specific and tangible purpose, as a competition under certain rules in the growing of wheat, or potatoes, or cotton, the raising of poultry or gardens, the baking of bread, the canning of fruit.

New York is the pioneer. Under the direction of Cornell University this state began work in 1898. It now has a membership of 75,000 boys and girls in its clubs, and has for its official organ the Cornell Rural School Leaflet, that goes to 7,000 teachers. Nebraska began this work in 1905, devoting its chief energy to the growing and the cooking of corn, under directions and recipes sent from the State University. In the fall they have local prize-winning contests in the township, then in the counties, and finally for the state, with a grand "corn banquet" bringing together 2,000 to 3,000 boys and girls from all over the commonwealth. The county superintendents of Winnebago County, Illinois, and Keokuk County, Iowa, have made national reputations in this work. Texas and Georgia are at it, too, and more than twenty other states.

An agricultural club may be organized in a single California school, and may do enthusiastic work. It is larger and better for the whole county to undertake it. Ambitious county superintendents of schools in the rural regions have an inspiring opportunity for usefulness in this field. There should be means provided for public displays of the results of competition. There should be some periodical to knit the organization together. There should be some leader who can travel about among the different clubs encouraging them and telling them what their fellows are doing.

Doubtless the time will come when the superintendents and teachers of agricultural counties will be chosen for enthusiasm and skill in this very kind of work. No superintendent in California has as yet taken it up. There is a fascinating field lying ready, a field for fame and glory, as well as for the highest service to the State.

Farmers' Bulletin No. 385 of the United States Department of Agriculture gives the latest and best information about the movement in a large way. The necessary leaders, the enthusiastic superintendents the essential periodical and all else that is needed will come—will come when the demand is strong enough to warrant it.

This, perhaps, sufficiently covers my theme. I have tried to say very distinctly that we have little to hope for in introducing so great and live a thing as agriculture to our boys and girls in the way we would do with a new grammar or a revised arithmetic. I have tried to remark very hopefully that in fostering such different things as school gardens, agricultural clubs, and taking part in the nearest industry, we shall be laying a foundation in the body politic for the structure in the schools that we would build. I shall try to come to a full stop by pledging you my best efforts during my life in the future to bring this thing about; for the reason that it seems to me the most important thing to-day for the schools of California to grasp.

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IRRIGATION THE BASIS AND THE MEASURE OF THE PRESENT AGRICULTURAL GROWTH OF CALIFORNIA.

By Frank Adams, In Charge of Irrigation Investigations in California, Office of Experiment Stations, United States Department of Agriculture.

California is now undergoing the most rapid agricultural growth in her history. The dream of those who have seen all of the broad acres of the great valley yielding back to Nature full annual recompense for the rich endowment of soil and water and sunshine she has showered on this favored land is coming true. And the significant fact about this growth is that, in the aggregate, irrigation is both its basis and its measure.

During the past quarter of a century the increase in the area of cropped lands in California north of Tehachapi, which embraces the great bulk of the area of the State, has been relatively small. Yet the number of farms and the number of farmers have grown, especially during the past seven or eight years, in an almost unprecedented manner. One has not far to look to see that the beginning of this breaking up of the old grain estates of the seventies could could not have come about without water to make their diversified culture in 40 and 80-acre holdings possible. Neither does one fail to note that the magnificent agricultural increase south of Tehachapi during the past decade has also been due to irrigation.

To imply, however, that California is now experiencing a great agricultural awakening due to irrigation does not mean that rapid growth was not made and that wonderful things were not accomplished during the first half-century of the State's occupancy by Americans. No amount of pen-picture writing could minimize the achievements of California farmers or discolor the romance of California agriculture prior to 1900. Progress blazed its way to accomplishments that commanded the respect and admiration of people everywhere. in the south made a garden of a desert. To the extent that it was absolutely necessary in the north, it accomplished the same result in a less degree, and where it was not absolutely necessary the grainfields and orchards and vineyards in many cases made their owners wealthy. But within ten years the northern farmers and landowners have come to understand that "sky farming" is not the best farming, even in northern California, and that the best success in agriculture can only come with the small intensely cultivated and irrigated farm.

THE IRRIGABLE AND IRRIGATED AREAS.

About 60 per cent of California is taken up with the high Sierra, Coast Range, and desert mountains, leaving 40 per cent, or about forty million acres below 3,500 feet elevation, devoted to the growth of agricultural products of one kind or other or to grazing. Of this great

area about fifteen million acres are valley lands and largely irrigable. Some of the higher mountain land is also irrigable, and quite a little of it is irrigated. In various irrigable sections of the State, the soil, moisture, temperature, and crop conditions are about as diverse as can be found anywhere in this country.

In the northeastern mountain valleys of Modoc, Lassen, and Plumas counties the elevation ranges from 4,000 to 5,000 feet and the climate resembles that of portions of the Rocky Mountains, with a short growing season and winter temperatures frequently below zero. The other extreme is Imperial Valley, at the southeastern corner, where the land lies lower than the sea, and temperatures are the highest to be found in the entire West. Despite these great differences, irrigation is as necessary to full production in the northern counties as at Imperial. The difference is merely in the degree of that necessity; at Imperial no beneficial growth whatever is possible without water, while in-Modoc, Lassen, and Plumas counties irrigation makes at least two blades of alfalfa grow where only one blade grew before.

In the great interior valley, with ten million acres of irrigable land and less than one fifth of it irrigated, the relative necessity for irrigation to produce crops decreases from south to north, yet, following the same reasoning that is applied above to the northeastern and southeastern corners of the State, its absolute necessity for full production is as certain in the Sacramento as in the San Joaquin. And as already indicated, it is to the final appreciation of this truth that the present great

agricultural development in California is due.

Along the coast and in the smaller interior valleys of the western side of the State, the amount of water it is necessary to apply artificially to keep the amount of moisture required by crops available in the soil when needed also decreases from south to north. Directly on the coast north of San Francisco no irrigation is now practiced. In Russian River, Sonoma, and Napa valleys, lying between the northern coast and Sacramento Valley, but little water is used, although those connected with the irrigation work of the Department of Agriculture believe that all that is available might be applied with much benefit, and experiments to demonstrate this are already under way.

In the coastal regions south of San Francisco neither the necessity for irrigation nor the extent to which the available water supply is applied increases very rapidly until San Luis Obispo is reached. In Santa Clara Valley, however, which is considerably north of San Luis Obispo, the time has long passed when orchardists expect a full yield without irrigation, and in San Benito and Monterey counties, also north of San Luis Obispo, the best farmers are the irrigation farmers. But it is in the southern coastal counties of Los Angeles, San Bernardino, Riverside, Imperial, Orange, and San Diego that most dependence is placed on irrigation water and the greatest wonders have been worked by its use.

THE IRRIGATION STORY TOLD BY THE POPULATION CENSUS.

In cooperation with the Office of Experiment Stations, the Bureau of the Census is now engaged in taking the irrigation census of California, simultaneously with the other states. When this census is complete and the results are published, just what part irrigation is playing in



the agricultural growth of California will be fully and accurately stated. Fortunately, however, we do not need to await the completion of this irrigation census to ascertain what that part is in a general way; it is already clear from the census of population recently announced for California by counties. Its brief but pointed story is this: outside of a few counties containing large urban, suburban, or transient populations, the high gains in population in California from 1900 to 1910 were all made in agricultural counties practicing irrigation.

Outside of Los Angeles County, which contains twenty-nine incorporated cities besides Los Angeles, the biggest gain made by any county was in Stanislaus. No more completely rural county than Stanislaus County is to be found in California, and there is no county, barring Imperial County, in which irrigation is more wholly responsible for growth than it is there. The increase was 136.7 per cent. The irrigated lands in this county are almost wholly in Modesto and Turlock irrigation districts, the latter, however, extending for a short distance into Merced County. In 1900 the approximate population in Modesto Irrigation District, which included the city of Modesto with 2024 people, was 3,000; in 1910 it was 7,500, or an increase of 150 per cent. The population in Turlock Irrigation District ten years ago was only 925; it is now 8,000, or more than eight and one half times the population in 1900.

In 1904 a canal was taken out of Feather River to irrigate eventually 80,000 to 200,000 acres of former dry-farmed grain land, largely in Butte County. There are now some 20,000 acres irrigated in Butte County by this canal alone, and this is not the only system that is supplying water for irrigation in this county that was not in existence ten years ago. The increase in the population of Butte County was 59.4 The increase in Fresno County was 99.5 per cent, in Kings County 64.4 per cent, in Merced County the same, in Orange County 74.8 per cent, in Riverside County 93.9 per cent, in San Bernardino County 103 per cent, in San Diego County 75.8 per cent in Tulare County 93.4 per cent. In all of these counties the irrigated areas have been largely increased since 1900, and in none of them could there have been nearly such large additions of population without such increase. In other counties, as for instance Glenn and Colusa, irrigation works not fairly under way when the population census was taken are already transforming old grain-farming villages into thriving modern towns.

So it is plain that where water is, people go, and that one who would be a part of the present rapid agricultural growth of California must be an irrigator, either to supply artificially all of the water his crops need, or to insure that there shall be no deficiency when rainfall fails to meet the natural demands.

WHAT IRRIGATION MEANS TO THE FARMER.

For ten years the Office of Experiment Stations of the United States Department of Agriculture, acting through its irrigation investigations, has been studying the needs of irrigators in California. Most of the time its work has been carried on in coöperation with the State of California, formerly through the State Board of Examiners, but recently through the Department of Engineering. During all of the time aid

has also been freely extended by the College of Agriculture of the University of California. The great extent of California and the varied conditions of its climate and soil and water have made difficult the choice of work to do, considering the limited funds available. chief work accomplished has been in studies of water-right conditions and needs, duty of water, methods of preparing land for irrigation and of applying water, the determination and prevention of seepage, percolation, and evaporation losses in transit or in application, organization and management of irrigation enterprises and delivery of water to users, pumping for irrigation, and drainage of irrigated lands. Reports covering all of these subjects have been published from time to time and quite largely distributed among the farmers of the State. In addition, special studies of irrigation practice covering particular crops, and also special localities, have been made. Incidentally, something of an insight has been obtained into what irrigation means to the farmer and the extent to which he will sometimes go to obtain a water supply.

In the first place, because irrigation farming in California is as a rule very profitable, it must not be supposed that every irrigated farm in California pays. Irrigated farms in California are not unlike irrigated farms in other places. The irrigation farmer who is not both a good agriculturist and a good business man, who tries to work poor or water-logged land, to grow profitably unprofitable crops, or fails to use water economically, and in the quantity and the manner and at the time needed, is as apt to fail as would be a poor farmer on unirrigated land. In other words, irrigation is not a magical wand whose mere touch makes all land and all crops blossom into a bountiful harvest. It is but one of the many important agencies at the command of him who would make the best success out of farming, and the irrigation must be prac-

ticed both carefully and intelligently.

For the man or woman of moderate means it has long been conceded that the ideal crop with which to set up irrigation farming in the West is alfalfa, and with this crop irrigation usually means everything. Exceptions to this are found only on river bottoms and where the ground water level is high enough to carry moisture to the alfalfa roots by capillarity. How much money return a farmer can get from irrigated alfalfa depends on the length of the growing season, of course assuming favorable soil and water conditions. In the northeastern counties of California where the season is comparatively short it is usual to expect one good crop of about two tons per acre and pasture on the unirrigated bottom lands and two good crops and pasture when the land is watered. On the experimental irrigation plat maintained on the University farm at Davis under cooperative agreement between the Office of Experiment Stations and the University of California, six cuttings were taken from the land in 1900, yielding from 4.08 to 8.45 tons per acre, depending upon the amount of water received by irriga-Irrigated alfalfa fed to dairy cows in Stanislaus County in 1910 raised that county from fourth to first in the list of dairy producing counties in California. In 1910, the second year after planting, a progressive farmer of Porterville harvested 950 tons of alfalfa from 145 acres of land, making the average yield substantially 6.5 tons per acre. At Pomona all alfalfa grown is irrigated with water pumped from depths of 30 to 100 feet and yields six or seven cuttings of from 1 to



11 tons each per acre per year. In Imperial Valley irrigated alfalfa yields eight or nine cuttings of a ton to the cutting each year per acre.

The above are fair statements of what irrigation means to the alfalfa farmer in typical parts of the State. But while irrigated alfalfa is always a safe crop, whether sold as hay, as beef, as alfalfa seed, or as butter fat, alfalfa farming will not satisfy everybody as a permanent occupation. Fortunately, the range of crops whose profitable production proper irrigation makes certain in California is almost unlimited. While nearly all of these crops are profitably grown in one section or another of the State without irrigation, although few of them are so grown south of Tehachapi, the assurance the irrigation farmer has that the summer drought will not leave him without a harvest and the greater productiveness and diversity irrigation makes possible give to irrigation farming a stability that is exceeded in no other industry. Up to 1898 practically no orchards were irrigated in the Santa Clara Valley of Santa Clara County. When the Office of Experiment Stations in 1904 made an investigation of irrigation in that valley a majority of the orchardists were found to count on irrigation as they counted on When the farmers of the lower San Joaquin and the Sacramento valleys commenced about six years ago to cease the old unprofitable summer-fallow grain farming, they saw their land commence to double and even quadruple in value as measured by the actual annual income from it. Ten years ago land in the thermal belt about Porterville and Lindsay that was not paying a fair interest on over \$50 per acre when farmed to grain is now selling in bearing orange and lemon orchards for from \$500 to \$1,000 and more an acre, and the orchardists of that section have sunk a thousand wells from 100 to 200 feet deep to supply the water that has made their present culture possible. In 1900 Imperial Valley was an uninhabited desert. To-day, due to irrigation, it is doing some of the biggest agricultural things in the West. In the immediate vicinity of Pomona 250 pumping plants, some of them lifting water 400 feet, are in almost continuous operation many months each year supplying water from the various cienagas for the irrigation of orchards and alfalfa fields at an average annual cost of about \$18; yet what irrigation means to the people about Pomona, as measured by the expense to which they will go to get it, is but what it means to thousands of others at Redlands, Riverside, San Diego, San Fernando, and the other attractive communities of the south. Even now the city of Los Angeles is preparing to supply water from its twenty-five million dollar Owens River aqueduct to 135,000 acres of land contiguous to the city, charging some such bonus as \$50 per acre for the right to receive the water and \$10 per acre per annum, which is considerably lower than the present prevailing rate, for its use.

There is no occasion, however, for multiplying examples of what irrigation means to the California farmer. The story is really as old as irrigation itself in this State, and has been told and retold almost each succeeding year. It may be interesting, however, to conclude with

a brief statement of what an irrigated farm in California costs.

WHAT AN IRRIGATED FARM IN CALIFORNIA COSTS.

For the intending settler, unfamiliar with irrigation, it may be in place to say that while irrigation farming is not sufficiently different from other farming to require any extraordinary skill or means, failure sometimes results from both lack of acquaintance with irrigation practice and lack of means to apply to the knowledge possessed. settler anxious to learn, ample information as to the best way to proceed in the settlement of an irrigated farm is available in the experience of irrigators already on the ground, and in the practical bulletins of the United States Department of Agriculture and of the different state agricultural experiment stations. The Office of Experiment Stations of the Department of Agriculture, for instance, has already issued a bulletin containing practical information for beginners in irrigation, and a series of manuals covering the irrigation of the chief staple irrigated crops, all of which are given freely; also, specific inquiries addressed to the Department of Agriculture or the state experiment stations are always answered to the best ability of those receiving them. of an irrigated farm and the amount needed to bring it to the point of supporting the farmer, which cost, by the way, is quite apt to be less than the cost of an unirrigated farm in some sections of the east, are. however, not always made duly clear.

In the first place, in addition to his land, which in its raw state may cost from nothing to \$150, the settler must be secure in an ample water right. On the irrigation projects of the Reclamation Service, the water right is paid for in ten equal annual installments, and the land is either taken up under the government land laws or purchased from private The installment plan of payment is also frequently adopted on private projects, but the water is usually sold with the land. In irrigation districts the water is part of the land and can not be sold sepa-In the cooperative or mutual irrigation associations, which predominate in the south particularly, a share of stock in the water company carries a pro rata share of the water carried. Water aside from land costs from \$10 in some sections of the north, where water is used chiefly for alfalfa or grain, to \$200 an acre in the orange and lemon orchards of Riverside and San Diego, with annual maintenance and operation charges to be added, in some cases whether water is used or not. Land with water costs from a minimum of about \$40 per acre in some of the mountain valleys to a usual maximum of about \$250. depending both on the location and the cost of providing the water supply. Good land at \$100 to \$125 per acre, with a safe water right and under a well managed system, is perhaps a fair average for the irrigated lands being placed on the market in the interior vallevs. although some land is being sold at double that figure. Even more important than the cost of a water right, however, an intending settler should satisfy himself by thorough investigation that the water right of the seller is clear and certain, that the quantity of water he provides is ample for the needs of crops and can be supplied, and finally, that the seller is financially responsible for and capable of living up to the contract he makes. If these matters are overlooked, irrigation by the newcomer may prove disastrous.

After purchasing his land and water the new settler is met with the practical questions of irrigation. First, he will need to prepare his land to receive water, which is neither a difficult nor an uncertain task. The practical bulletins already referred to will help him in this. But he must make provision for spending from \$5 to \$15 or \$20 per acre. largely in his own labor, in doing this. The main thing is to be sure that the best method is chosen for conditions present, and then that the work is done well. Otherwise the annual loss due to improper preparation in the first instance will soon eat up the saving in the initial cost of a poor job. In addition to preparing his land to receive water, the settler will need to lay out his farm distributaries, the cost of which. however, is included in the figures above. This is a matter that should be carefully considered by irrigation companies selling land and water, although usually, and sometimes unfortunately, the settler is left to shift for himself in this regard. Here, again, the bulletins of the federal and state agricultural departments will be of service to those who seek their aid.

The costs of preparing land given above are for the usual conditions with unlined surface distributaries, yet it may not be amiss to state that orchardists about Pomona are in some cases spending as high as \$100 per acre to prepare their land for planting, and throughout the citrus sections the usual practice is to use the more or less expensive underground distributaries.

Fortunately for the settler on irrigated land, the entire cost of an irrigated farm does not need to be met at the start. As the land and water are usually sold on installments, the main burden comes in providing the other accessories necessary. Few, if any, settlers expect to irrigate their entire holdings the first year, so that the cost of preparing some of the land for irrigation and the deferred payments on the land and water right can be met at first in part, and after a few years wholly from the income produced by the land. A settler, with a family who has less than \$1,000 has little chance of making a fair success on most of the projects, although there can probably be found many instances in which success has been attained under such conditions. start on a 40-acre tract to be devoted largely to alfalfa can usually be made with from \$1,500 to \$2,000 cash. Three thousand to four thousand dollars, however, should carry the enterprise through with fair comfort, although such an amount should not be counted on to provide a full equipment at the start. The agricultural manager of one of the largest land and irrigation companies now developing irrigated lands in California states that the average prospective settler of moderate means on a 40-acre tract under his project figures that about \$6,600 is necessary to make the first payment of \$600 on the land costing with water \$125 an acre, provide a house costing \$1,200, barn and outbuildings costing \$600, horses, machinery, and other equipment costing \$1,200, cows and other live stock costing \$1,500, with \$1,500 left for miscellaneous expenses. Yet it is fair to say that a farmer under this same project who started with only \$1,000 cash recently received the prize for the best results obtained on a small irrigated farm.

AGRICULTURE IN CALIFORNIA.

The following article appeared in the San Francisco Chronicle of December 16, 1910, and as it bears so directly on the importance of sustaining the agricultural interests of the State, we deem it worthy a place in this report: "The discussion of the subject of state aid to agriculture, which was begun in the Commonwealth Club the other night, ought to lead, in the end, to very useful results. The preliminary discussion was based on a paper by A. J. Pillsbury, whose experience as the secretary of the State Board of Examiners had made him very familiar with what this State pays out in aid of agriculture, and what it gets for its expenditure.

It is significant of the absorption in the obvious, and the immediate, of even such excellent citizens as those who compose the Commonwealth Club, that the meeting of not more than fifty was much the smallest in recent years, and less than half the number which would have turned out to discuss an amendment to the charter of this city, and probably not a quarter so many as will be present next month to hear the flighty and irreverent of the membership make fun of their wise and sedate officials.

And yet the comparatively petty interests of this municipality are of the most trifling importance even to the inhabitants of this municipality as compared with deliberations which may affect the output of our soils, our mines, our forests, and our waters, without which San Francisco would be nothing, but a transfer point.

In all countries, and especially in the United States, public funds are used on a great scale in aid of farmers, as they are used in aid of no other class of people.

At bottom this is not because the community cares more about farmers than any other class of citizens, but because the existence of all other industries depends upon the exploitation of our natural resources, of which those of the soil are the most important and most essential.

It is not necessary to assume that the pressure of population, on subsistence, is already so pressing as to make State aid to agriculture imperative, lest some may starve. It is sufficient to realize that the greater the number of farmers and the greater the yield of the soils, the greater, and more prosperous, will be the cities whose inhabitants trade in those products.

There is a feeling, among some, that there has been waste in this State, connected with the expenditure of the sums appropriated in aid of agriculture. The object of the investigation, just begun, by the Commonwealth Club is to ascertain whether or not there is foundation for such belief, and if so, to suggest the remedy."

ALFALFA GROWING IN CALIFORNIA.

By REV. D. Edmiston.

[This article is from a former report of the California State Agricultural Society, and is republished this year in deference to a constant and increasing demand for information on this subject.]

Were I called upon to express an opinion as to what single product of the soil would probably assume the greatest importance in our State within the next century, I would not hesitate to say alfalfa. As a forage plant for general use, as far as I know, it has no equal in value. This may be said not only in regard to its enormous productiveness, but as well in regard to its excellence as a feed, particularly for horses and cattle. For teams doing ordinary work on the farm, and for milch cows, it answers the purpose of both hay and grain. I feed no grain to my teams, and they not only stand work well, but they keep in good condition and in good flesh.

With our almost perpetual summer and with soil specially adapted to its growth, who can estimate the extent to which its production may be pushed in almost every part of our State? And who in imagination can look forward to the middle of the twentieth century and contemplate the vast number of profitable dairies, the fat beef cattle and fine horses raised on alfalfa, either in pastures or after made into hay, without pleasure and gratitude to the Bountiful Giver of so rich a heritage?

REQUIREMENTS.

But I am reminded that alfalfa can be successfully grown only where water for irrigation is abundant. However, there are occasional tracts of moist land where it does fairly well, though its cultivation on such land is attended with difficulties unknown on land which must be irri-The busy gopher works three hundred and sixty-five days in the And there are grasses, particularly Bermuda grass, which spread on such land with great rapidity and in a few years destroy the alfalfa. In making such large claims as to the extent and importance which alfalfa culture is destined to assume in the near future, I am met by the objection that the scarcity of water will for all time be an insuperable difficulty in the way. It is true that in many places water can only be obtained at great cost of capital and labor. Nevertheless, we can not doubt but that there are millions of acres of choice lands suitable for the purpose now lying waste which will be provided with water long before the middle of the twentieth century. It is only a question of capital and labor collecting and saving the enormous precipitation in The rich valleys and plains extending from the our mountain districts. southeast to the northwest in an unbroken chain for eight hundred miles were not planned by the Great Architect to remain forever waste. Whoever thinks so has studied the greatness of our State to little purpose.



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SUITABLE LAND.

In southern California alfalfa will do fairly well on almost any land suitable for grain growing or orchard purposes where water can be secured in abundance for irrigation. And as a rule every farmer and orchardist who has such land will find it to his interests to grow a sufficiency for his teams and a cow or two. But it should be understood that there is a great difference in the adaptability of land, even in the same neighborhood, to alfalfa growing. And one who has chosen this industry as a prominent branch of his business should carefully select his location, as success or failure may hinge on the choice made. A porous subsoil which will take water freely can scarcely fail to give large crops if properly irrigated. There is ample fertility in almost any of our mesa lands to produce well if the roots can freely penetrate the subsoil. But there are tracts of land with fine surface soil which can not be made to produce heavy crops, simply because neither the water nor the roots can penetrate the underlying hardpan or tough clay subsoil. I have had some unpleasant experience in this direction, against which I would guard the inexperienced. In selecting land for this purpose one should not take surface appearances. He should dig down and find out what is under the surface, else he may be deceived.

PREPARING THE LAND.

Burn or remove all weeds and rubbish before plowing. If there are small mounds or hillocks which need to be removed with the scraper, it is much easier to do it before plowing the whole surface, as the low places, where the dirt should be dumped, may then be readily seen. And whatever leveling is needed should be done with reference to the location of the irrigating ditches. It is very important that the general lay of the land be accurately ascertained, either by a competent engineer or by the actual running of water. After the ground has been leveled as thoroughly as possible with the scraper, it should be well plowed and the surface carefully pulverized. All dead furrows should be filled and some suitable instrument used to make the surface level and smooth. A piece of square timber, twenty-five or thirty feet long, weighted down so as to make a load for two teams, one hitched at each end, and drawing it sidewise over the land, will level the surface as well or better than any other contrivance I have seen at work. And, as this is done rapidly, it is well to go over the land two or three times, changing the direction This will put the ground in fine shape for irrigating, if the general level has been secured, and it will somewhat pack the loose ground and thus prevent the young alfalfa plants from drying out if the north wind should blow, and enable the roots more readily to fasten in the soil.

LAYING OFF FOR IRRIGATION.

For convenience and economy in irrigating, a ten-acre lot should be divided into three or four equal blocks. I have had considerable experience with five-acre blocks (twenty by forty rods); but I have always found them two wide for the equal and easy distribution of water. The water would stand over parts of the block longer than necessary before it could be forced over other parts. Consequently, the water is not equally distributed, some parts receiving more than is necessary and other parts not receiving enough.

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AMOUNT OF SEED REQUIRED.

The amount of seed sown is not a matter of so great importance as the manner of sowing and covering. Nothing heavier than a horse rake, lightly run over the ground, should be used. A brush, or a considerable bunch of brush, fastened together, answers the purpose well. All that is wanted is to imbed the seed somewhat in the fine dirt on the immediate surface. It does not matter much if much of the seed remains in sight. Indeed, if the sowing is followed by a heavy rain or by flooding the ground, so as to insure a moist surface for four or five days, it is all right without any covering at all. Two years ago I sowed a block, and when about half of it was lightly covered a heavy rain drove us in. I never had a finer stand, the uncovered part being just as good as that which had been covered. Thus treated, ten pounds to the acre will make a very thick stand—even more than is needed. I once sowed ten pounds to the acre on one half a ten-acre tract and seven pounds per acre on the other half; and after it came up no one could have told the difference. It was all abundantly thick. Then, if you cover very lightly as above, or see that the ground is wet by rain or by flooding, ten pounds of seed per acre is the greatest plenty. But if one insists on covering with a heavy harrow, or an ordinary cultivator, as grain is covered, a heavy investment in seed will be required, as a very small part of the seed sown will ever send a plant to the surface.

CUTTING AND IRRIGATING.

After sowing and seeing that the ground is properly wet, nothing further will be required until the ground needs irrigation. But when the alfalfa gets six or eight inches high it should be mowed. This will check the weeds and cause the alfalfa to branch and to grow with much greater vigor than if left uncut. Through the first season the ground should have a good flooding after each cutting, and oftener if needed. It will grow all the faster if flooded once in every three or four weeks. If sown in the winter or early spring, the first season ought to make three or four tons per acre, if properly cared for. However, the first season's crop will vary greatly on different soils—much more than in following years.

MAKING HAY.

It will be well to begin cutting quite early in the spring, especially if one has a good deal to cut, but no definite date can be given, as the seasons vary greatly. It is a mistake to wait for the alfalfa to become large and show signs of blossoming. By cutting the early growth about the time the warm spring days begin to come, though it may make only a light crop, the new growth will start with vigor, and at the end of a month, when ready to cut again, you will probably have a ton per acre more than if the two cuttings had been thrown into one, and the hay will be of much better quality.

There is another important advantage in early cutting. Foxtail grass often spoils the first cutting of hay for horses. But if cut before the grass head begins to harden it is entirely harmless, as it will not fasten in a horse's mouth at this stage.



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CONDITION AT CUTTING.

Throughout the season great care should be taken to cut promptly when the alfalfa has reached a proper state for making first-class hay. Of course, there are different opinions as to what the "proper state" is. I can only give my own opinion and the reason for it. And that opinion is that it should be cut before the stalk begins to harden, as it always does as the buds mature and the blossoms begin to open. If it stands longer, the quality of the hay deteriorates much more than the additional growth can compensate for. But there are those who want it to stand longer. They say that it makes better feed and has more sub-This is true, if woody substance is desired, but it is not stance in it. true if nutriment is the object in view, if we may rely upon the tables and statements made in Farmers' Bulletin No. 31 of the United States Department of Agriculture. On page 18 it is said: "The percentage of nitrogenous compounds in the plant varies considerably, the maximum being in the early stages of its growth and the minimum about the time the seed commences to ripen. Hence, hay cut early, especially before the plant begins to bloom, is more nutritious than that cut after it has begun to bloom." The writer gives the analyses of hay made at four different periods in the growth of the plant, showing that the statements just made are correct from a scientific point of view. sure that experience will lead any careful observer to the same conclusions.

LOCAL EXPERIMENTS.

About two months ago, after feeding my cow for some time on hay which had been cut when in bloom, I changed to hay cut before it began to bloom, and at once her flow of milk increased at least one fourth. And my neighbor, Mr. H. D. Noland, tells me that in the same way the weight of milk given by his herd had been very greatly increased just as soon as changed from hay made in the ordinary way to that made from tender, young alfalfa. Another point in favor of early cutting is worth considering. Cows will then eat the stalks clean, wasting But if it stands until in bloom, when the stalks become woody, they can not be induced to eat them, often wasting one fourth of the weight. Hence, I am fully convinced that one making hay for his own use will find it decidedly to his advantage to cut before stalks begin to And in making hay for sale it will be just as much advantage to his customers, and will be better all around, if they can be induced to pay a little more for such hay to make up for the loss in weight in cutting before it is fully grown.

SUGGESTIONS.

I would never cut at one time more than can be raked and put in cocks in the forenoon of the next day, if it is in the hot and dry summer months, or in the forenoon of the first day after it is sufficiently cured. However, the very early or very late cuttings, when the only difficulty is to get it dry enough to keep, may be handled in the afternoon without breaking the leaves and losing them. But through much of the season alfalfa hay should never be touched in the afternoon, or after the leaves begin to break.

One should never cut and put in the cock forty or fifty acres, as I have often seen done, before beginning to haul it in. Hay thus treated is scarcely worth more than half price, to say nothing of the delay of one week, or perhaps even two weeks, in irrigation which this method requires. One can not afford this loss. When I have sixty or seventy acres to handle, I generally cut about five acres in the morning and put in the cock the same amount cut before, and come as near as I can to hauling the hay from five acres each day. But I generally find it necessary to stop cutting a day or two each week to catch up with the hauling. When the weather is very dry and hot we think it pays to go to the field as soon as it is light, and lay off for the remainder of the day when the hay becomes too dry.

We find it a great convenience and economy of time and labor to have large and convenient racks on our hay wagons. We use flat racks, eight by sixteen feet. On one of these we can, without high pitching, conveniently put a load of two tons, and without any danger of its slipping off on sloping ground. A two-ton load on such a rack is about twelve feet wide and eighteen feet long, and no higher than a ton load on the kind of racks I often see used. And the average team can haul two tons on our hard roads easily, and it saves much time when one is

hauling three or four miles.

ESTIMATING ALFALFA HAY IN STACK.

Age of stack. 30 days	Cubic feet for a ton.
6 monthsOld, fully settled	7½ feet cube, or 422 cubic feet.
Sometimes in very large stacks or mows a 6	•

"There are different methods of measuring hay in the stack, depending upon the shape of the rick and also upon its size. With a long rick the usual method is to throw a line over the stack, measuring the distance in feet from the bottom of the stack on one side to the bottom of the other; add to this the average width of the stack in feet, divide this sum by four, which gives one side of the square—and multiply the quotient by itself and this product by the length of the stack in feet. This will give the number of cubic feet in the stack, which may be divided by 512, 422, or 343, as may be decided upon, in order to find the number of tons.

"For small, low ricks the rule is to subtract the width from the over, divide by two, multiply by the width and multiply the product by the length, dividing the result by the number of cubic feet in a ton.

"There is no established rule for measuring round stacks, but this one will approximate the contents of a stack of ordinary conical form: Find the circumference at or about the base or bulge at a height that will average the base from there to the ground; find the vertical height of the measured circumference from the ground and the slant height from the measured circumference to the top of the stack, taking all measurements in feet. Multiply the circumference by itself, divide by 100 and multiply by eight, then multiply the result by the height of the base, plus one third of the slant height of top. The hay in a round stack is usually less compact than in a rectangular rick, hence a greater number of feet should be allowed for a ton—with well settled hay, probably 512 cubic feet.

"The rules given may also be used in measuring any kind of hay, straw, cane or kaffir fodder, but with cane or kaffir only approximate results may be secured by stack measurements, because fodder is apt to vary greatly in weight according to the moisture it contains."



RESOURCES

OF THE

STATE OF CALIFORNIA.

(BY COUNTIES.)

ALAMEDA COUNTY.

Alameda County fronts on the bay of San Francisco for a distance of 38 miles, with an average width of 25 miles, extending to and beyond the summit of the Contra Costa hills, comprising numerous beautiful valleys, besides the broad Alameda Valley, which last is bounded by the waters of the bay on the one side and the Contra Costa hills on the other, and is one of the richest and most fertile valleys in the State. The principal stream is Alameda Creek. There are other creeks crossing the county and emptying into the bay, two of which furnish water for the city of Oakland. The country around Hayward is one of the great fruit-raising regions, many millions of pounds being shipped

annually.

The soils immediately along the bay in Alameda Valley and the marshes formed by the overflow are heavy, but very fertile when Then comes a broad belt of rich, black adobe that is crossed by deposits of alluvium made by shifting channels of streams running down from the Coast Range. In the Niles region are lighter loams. About Livermore are uplands, bench, and valley lands. Between the latter two classes the variation in potash, lime, and phosphoric acid accounts for difference in grape crop. Mission San Jose is characterized by gravelly, upland, adobe soil, and was evidently chosen by the padres of the old Spanish mission for its exemption from frost. caused by its slight elevation above the surrounding valleys. The Pleasanton section consists of agricultural and grazing lands. The soil is a very rich sediment, producing hay, grain, potatoes, hops, and beets in abun-At Alvarado the surrounding country is a fine farming and fruit region, and gardening and dairying are largely carried on. fertile, alluvial soil is finely adapted to fruit-growing.

The average rainfall of the county is about 30 inches.

Alameda County was among the first to begin the planting of orchards The county is divisible into three sections—the cherry and vineyards. district, the apricot district, and the vineyard district.

From Oakland to Hayward is the home of the cherry, and in an ordinary year this crop is good for a profit of a quarter of a million dollars.

The apricot section includes all the region east and south of Hayward, but the center is at Niles. The Alameda apricot is high colored and the flavor exquisite. One of the most popular varieties, the Alameda Hemskirk, was originated here. The other varieties preferred are the Blenheim and the Moorpark. A first-class apricot orchard is easily worth \$500 per acre, and some could not be bought for \$750 or \$800. Apricot trees yield from twelve to twenty tons per acre, worth from \$20 Thousands of car loads of apricots are shipped annually to \$30 a ton. from this county.

While cherries and apricots are the king and queen of fruits. there are others which do well, among them being the Bartlett pear.

plum is another fruit which thrives, and the smaller fruits and berries

are profitably grown.

In Alameda County are the largest current patches in the United States. The size of an average current farm varies from twenty to forty acres. Local canneries pack a great number of cases of this fruit, and thousands of chests of currents are shipped away each year.

Almonds, chestnuts, English walnuts, pecans, beechnuts, and hazel-

nuts are extensively cultivated.

Alameda is par excellence a vegetable-producing county. It has led in this industry for a long time, and the area devoted to vegetables has been increasing at a rapid rate, since the profit in peas, potatoes, tomatoes, rhubarb, asparagus, and several other vegetables is large enough to tempt the owners of the best soil to go into the business.

There are 8,000 acres devoted to vegetables in the county, not includ-

ing sugar beets, which would add 4,000 or 5,000 acres more.

Many acres in this county are planted to tomatoes, which prove to be a most profitable crop. It is not unusual to find 100 acres of tomatoes

growing upon a single farm.

The potato crop is of increasing importance, since it has been found that there is good money in the big Burbank potatoes and other commercial varieties. The best soil will produce from 75 to 80 sacks to the acre, although record yields of 150 sacks have been produced.

The growing of peas for canning has assumed importance. The output of the San Leandro cannery, located in this county, has reached as high as 1,200 cases per day, and 3½ tons of peas have been grown upon

a single acre.

One of the prosperous agricultural industries is the growing of rhu-

barb for the California and Eastern markets.

California was the first State in the Union to manufacture beet-sugar on a commercial scale. In Alameda County it has been manufactured for the past thirty-three years. Within her borders is located not only the pioneer beet-sugar factory of this country, but also one of the largest factories in the world. The annual production of beet-sugar in California exceeds that of any other state. Beets in Alameda County average over 14 per cent sugar of 88 per cent purity, and they yield an average of 15½ tons to the acre. The planting season extends from the first of February to the middle of May. This provides a long period of activity for the factory, which begins operations in August, and has continuously maturing crops of beets to handle.

The average annual output of salt recovered from San Francisco Bay, in Alameda County, is 100,000 tons, including both coarse and fine

salt.

Oakland is the county seat, located on the bay opposite San Francisco, and has for its immediate neighbors the cities of Berkeley and Alameda. These three cities are very prosperous and have a rapidly increasing population.

The University of California is located near the city of Berkeley, and

has an average attendance of 4,500 students.

STATISTICS OF ALAMEDA COUNTY, 1909-10.

. General St	atistics		Fruits, Vegetables, Etc.	
Area 840 square miles,		Seres	Total	••
Number of farms		2,482	Production	
Number of acres assess	sed	537,600	Green—Pounds.	Value.
Value of country real	estate {	13,228,625	Apples	\$17,500 93,779
Of improvements there	on	\$3,164,220	Asparagus 2,465,126	246,512
Of city and town lots. Of improvements there Of personal property Total value of all prope	on	59,453,450	Blackberries, crates 900	3,250
Of personal property		21,715,497	Beans	23,799
Total value of all prope	erty\$2	00,206,102	Cabbaga 6145 000	250,000 40,725
Expended on roads, is	st nscal	\$138,541	Carrots 8.125.000	162,502
Expended for bridges,	last fis-	\$100,011	Beets, tons 50,000 Cabbage 6,145,000 Carrots 8,125,000 Celery 7,892,000	162,502 789,200
cal year		\$178,822	Corn 850,850	42,542
Number of miles of pub	lic roads	850	Cucumbers 824,800	56,200 16,496
Miles of street in town	and oity	40c 450	Currants 140.12	6.256
Value of county buildin	gs	\$825,000	Cherries 896,600	44,830
Railroads steam — mil	les 200·		Figs 15,000	1,500
assessed value		\$6,075,375	Gooseberries 30,000 Grapes	1,500 423,502
Railroads, electric — mi assessed value	ies, 158;	\$5,198,900	Lemons (Doxes) 626	1.875
Electric power plants	— 5: as-	40,200,000	Loganherries 125 000	6 250
Electric power plants- sessed value Electric power lines		\$2,425,125	Onions 3,750,120	75,002
Electric power lines	— miles,	****	Oranges (boxes) 895 Olives 225,125	
100; assessed value	• • • • • • • •	\$200,000	Pears 975,998	29,280
Cereal Products	•	.	Peaches 500,000	15,000
Tons of 2,000		** 1	Peas	198,786 25,000
Agres.	Bushels.	Value.	Pumpkins (tons) 5,000 Plums 495,750	24.787
Wheat 1,350 Barley 8,750	2,083 11,655	\$122,580 437,062 131,200	Irish potatoes18,250,125	365,002
Oats 2,575	2,624	131,200	Sweet Dotatoes 2.900.800) 145.040
Corn 485	1,284	38,520	Prunes	128,750 188
Total cereals 13,160	17,646	\$729,362	Raspberries 1,128	5,625
Acres.	Tons.	Value.	Strawberries 750,000	37,500
Alfalfa hav 710	3,895		I UIII	376,682
Grain hay 55,001	73,652	\$46,740 1,288,910	Rhubarb	133,336 22,050
Grass hay 24,750		12,375	Walnuts 202,998	20,299
Total hay 80,461	77,547	\$1,348,025	Total	\$3,843,899
Number of Fruit T	1		20002	40,010,000
	rees and '	/ines.		TT . 1
Bearing.	Non-bearing	z. Total.	Dried— Pounds.	Value. \$45.833
Apple Bearing. 15,750	Non-bearing	z. Total.	Almonds 305,555	\$45,833
Apple Bearing. 15,750	Non-bearing 12,225 27,775	z. Total.	Almonds 305,555 Apples 50,000 Apricots 500,000	\$45,833 5,000 25,000
Apple 15,750 Apricot 75,016 Cherry 28,935	Non-bearing	7. Total. 27,975 102,791 34,910 550	Almonds 305,555 Apples 50,000 Apricots 500,000 Beans 295,756	\$45,833 5,000 25,000 7,872
Apple 15,750 Apricot 75,018 Cherry 28,935 Fig 360 Lemon 750	Non-bearing 12,225 27,775 5,975 250 350	7. Total. 27,975 102,791 34,910 550	Almonds 305.55 Apples 50.00 Apricots 500.00 Beans 295.75 Chestnuts 3,20 Onions 988.97	\$45,833 5,000 25,000 7,872 320 19,779
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 7550 Olive 4,675	Non-bearin 12,225 27,775 5,975 250 350 2,775	7. Total. 27,975 102,791 34,910 550 1,100 7.150	Almonds 305,555 Apples 50,000 Apricots 500,000 Beans 295,750 Chestnuts 3,200 Onions 988,971 Pears 30,000	\$45,833 5,000 25,000 7,872 320 19,779 1,500
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200	Non-bearin 12,225 27,775 5,975 250 350 2,775 521	7. Total. 27,975 102,791 34,910 550 1,100 7.150	Almonds 305.55t Apples 50.00t Apricots 500.00t Beans 295.75t Chestnuts 3.20t Onions 988.97t Pears 30.00t Peaches 200.00t	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 7500 Olive 4,675 Orange 1,200 Peach 12,575 Pear 19,775	Non-bearing 12,225 27,775 5,975 250 350 2,775 521 10,125	z. Total. 27,975 102,791 34,910 550 1,100 7,150 12,171 42,700 29,770	Almonds 305.55 Apples 50,00 Apricots 500.00 Beans 295.75 Chestnuts 3,20 Onions 988.97 Pears 30,00 Peaches 200,00 Peas 145.62 145.62 145.62	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 37,522
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 7550 Olive 4,675 Orange 1,200 Peach 12,575 Pear 19,775 Plum 9,980	Non-bearing 12,225 27,775 5,975 250 350 2,775 521 10,125 9,995 6,770	z. Total. 27,975 102,791 34,910 550 1,100 7,150 12,171 42,770 29,770 34,450	Almonds 305.55 Apples 50,000 Apricots 500,000 Beans 295.75 Chestnuts 3.20 Onions 988,97 Pears 30,000 Peaches 200,000 Peas 145,62 Plums 375,22 Walnuts 45,96	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 37,522 7,166
Apple 15,750 Apricot 75,018 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Pear 19,775 Plum 9,980 Prune 103,000	Non-bearing 12,225 27,775 5,975 250 350 2,775 521 10,125 9,995 6,770 30,125	z. Total. 27,975 102,791 34,910 550 1,100 7,150 12,171 42,700 29,770 34,450 133,125	Almonds 305.55 Apples 50,00 Apricots 500,00 Beans 295.75 Chestnuts 3,20 Onions 988,97 Pears 30,00 Peaches 200,00 Peas 145,62 Plums 375,22 Walnuts 45,96 Garlic 532,32	\$45,833 5,000 25,000 7,872 320 320 19,779 1,500 20,000 4,14,562 37,522 7,166 26,616
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Pear 19,775 Plum 9,980 Prune 103,000 Quince 395	Non-bearin 12, 225 27,775 5,975 250 350 2,775 2,775 10,125 9,995 6,770 30,125	z. Total. 27,975 102,791 34,910 550 1,100 7,150 12,171 42,700 29,770 34,450 133,125	Almonds 305,556 Apples 50,000 Apricots 500,000 Beans 295,75 Chestnuts 3,200 Onions 988,97 Pears 30,000 Peas 145,62 Plums 375,22 Walnuts 45,96 Garlic 532,32 Vegetables in general	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 37,522 5,7166 26,616
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Pear 19,775 Plum 9,980 Prune 103,000 Quince 395 Total fruit 272,351	Non-bearing 12, 225 27,775 5,975 250 350 2,775 10,125 9,995 6,770 30,125 100 106 986	z. Total. 27,975 102,791 34,910 550 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495	Almonds 305,556 Apples 50,000 Appricots 500,000 Beans 295,75 Chestnuts 3,200 Onions 988,97 Pears 30,000 Peaches 200,000 Peas 145,62 Plums 375,22 Walnuts 45,96 Garlic 532,32 Vegetables in general Vegetable seeds	\$45,833 5,000 25,000 7,872 320 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 3,900 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Plum 9,980 Prune 103,000 Quince 395 Total fruit 272,351 Almond 10,195	Non-bearing 12,225 27,775 5,975 250 350 2,775 521 10,125 9,995 6,770 30,125 100 106 986 25,000	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495 427,187 35,195	Almonds 305,556 Apples 50,000 Apricots 500,000 Beans 295,75 Chestnuts 3,200 Onions 988,97 Pears 30,000 Peas 145,62 Plums 375,22 Walnuts 45,96 Garlic 532,32 Vegetables in general	\$45,833 5,000 25,000 7,872 320 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Pear 19,775 Plum 9,980 Prune 103,000 Quince 395 Total fruit. 272,351 Almond 10,195 Chestnut 72	Non-bearing 12, 225 27,775 5,976 2500 350 2,775 5,521 10,125 9,995 6,770 30,125 100 106 986 25,000 21	z. Total. 27,975 102,791 34,910 550 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495 427,187 35,195	Almonds 305,556 Apples 50,000 Appricots 500,000 Beans 295,75 Chestnuts 3,200 Onions 988,97 Pears 30,000 Peaches 200,000 Peas 145,62 Plums 375,22 Walnuts 45,96 Garlic 532,32 Vegetables in general Vegetable seeds	\$45,833 5,000 25,000 7,872 320 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 3,900 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Plum 9,980 Prune 103,000 Quince 395 Total fruit 272,351 Almond 10,195	Non-bearing 12,225 27,775 5,975 250 350 2,775 521 10,125 9,995 6,770 30,125 100 106 986 25,000	z. Total. 27,975 102,791 34,910 550 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495 427,187 35,195 93 34,300	Almonds 305.556 Apples 50.000 Beans 295.756 Chestnuts 3.200 Onions 988.977 Pears 30.000 Peaches 200.000 Peas 145.621 Plums 375.222 Walnuts 45.961 Garlic 532.322 Vegetables in general Vegetable seeds Total Canned— Cases. Fruit and vegetables	\$45,833 5,000 25,000 7,872 320 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value.
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Pear 19,775 Plum 9,980 Prune 103,000 Quince 395 Total fruit 272,351 Almond 10,195 Chestnut 72 Walnut 6,175 Total nut 16,442	Non-bearing 12, 225 27,775 5,976 250 350 2,775 5,21 10,125 9,995 6,770 30,125 100 106 986 25,000 21 28,125 53,146	z. Total. 27,975 102,791 34,910 550 1,100 7,150 12,171 142,700 29,770 34,450 133,125 495 427,187 35,195 93 34,300 69,588	Almonds 305.556 Apples 50,000 Apricots 500,000 Beans 295.75 Chestnuts 3.200 Onions 988.97 Pears 30,000 Peas 145.62: Plums 205.000 Walnuts 45.96i Garlic 532,32i Vegetables in general Vegetable seeds Total Canned— Cases.	\$45,833 5,000 25,000 7,872 320 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value.
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Plum 9,980 Prune 103,000 Quince 395 Total fruit. 272,351 Almond 10,195 Chestnut 72 Walnut 16,442 Grapevines 2,175	Non-bearin, 12, 225 27, 775 5, 975 250 350 2, 775 6, 770 30, 125 6, 770 30, 125 100 106 986 25,000 28, 125 53, 146	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495 427,187 35,195 93 34,300 69,588 2,325	Almonds 305.556 Apples 50,000 Apricots 500,000 Beans 295.75 Chestnuts 3.200 Onions 988.97 Pears 30,000 Peas 145.62: Plums 275.22 Walnuts 45.96: Garlic 532,32! Vegetables in general Vegetable seeds Total Canned— Cases. Fruit and vegetables of all kinds 957,598	\$45,833 5,000 25,000 7,872 320 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value.
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Pear 19,775 Plum 9,980 Prune 103,000 Quince 395 Total fruit 272,351 Almond 10,195 Chestnut 72 Walnut 6,175 Total nut 16,442	Non-bearing 12, 225 27,775 5,976 250 350 2,775 5,21 10,125 9,995 6,770 30,125 100 106 986 25,000 21 28,125 53,146	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495 427,187 35,195 93 34,300 69,588 2,325 525	Almonds 305.556 Apples 50,000 Apricots 500,000 Beans 295.75 Chestnuts 3.200 Onions 988.97 Pears 30,000 Peas 145.62: Plums 375.22: Walnuts 45.96: Garlic 532,32! Vegetables in general Vegetable seeds Total Canned— Cases. Fruit and vegetables of all kinds 957,598 Dairy Industry.	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value.
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Plum 9,980 Prune 103,000 Quince 395 Total fruit. 272,351 Almond 10,195 Chestnut 72 Walnut 16,442 Grapevines 2,175	Non-bearin, 12, 225 27, 775 5, 975 250 350 2, 775 6, 770 30, 125 6, 770 30, 125 100 106 986 25,000 28, 125 53, 146	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495 427,187 35,195 93 34,300 69,588 2,325	Almonds 305.556 Apples 50,000 Apricots 500,000 Beans 295.756 Chestnuts 3.200 Onions 988.976 Pears 30,000 Peas 145.621 Plums 375.222 Walnuts 45.966 Garlic 532,326 Vegetables in general Vegetable seeds Total Canned— Cases. Fruit and vegetables of all kinds 957.596 Dairy Industry. Production Fresh milk 8,125.276	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 7,166 26,616 100,000 75,000 \$386,170 Value. \$1,915,190
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Plum 9,980 Prune 103,000 Quince 395 Total fruit 272,351 Almond 10,195 Chestnut 72 Walnut 6,175 Total nut 16,442 Grapevines 21,75	Non-bearin, 12, 225 27, 776 5, 976 5, 976 350 2, 776 5, 976 350 2, 776 6, 770 30, 125 100 106 986 25, 000 28, 125 53, 146 150	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495 427,187 35,195 93 34,300 69,588 2,325 525	Almonds 305.556 Apples 50,000 Apricots 500,000 Beans 295.75 Chestnuts 3.200 Onions 988.976 Pears 30,000 Peas 145.621 Plums 375.222 Walnuts 45.966 Garlic 532.321 Vegetables in general Vegetable seeds Total Canned— Cases. Fruit and vegetables of all kinds 957.596 Dairy Industry. Production Fresh milk 8.125.276 Butter (pounds) 3,012.756	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value. \$1,915,190
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Pear 19,775 Plum 9,980 Prune 103,000 Quince 395 Total fruit 272,351 Almond 10,195 Chestnut 72 Walnut 6,175 Total nut 16,442 Grapevines 2,175 Berries, acres 255 Total 2,700 Wines, Brand	Non-bearin 12, 225 27, 775 5, 975 250 350 2, 775 521 10, 125 9, 996 6, 770 30, 125 25, 000 21 28, 125 53, 146 150	z. Total. 27,975 102,791 34,910 550 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495 427,187 35,195 93 34,300 69,588 2,325 525 2,850	Almonds 305.556 Apples 50,000 Apricots 500,000 Beans 295.756 Chestnuts 3.200 Onions 988.976 Pears 30,000 Peas 145.621 Plums 375.222 Walnuts 45.966 Garlic 532,326 Vegetables in general Vegetable seeds Total Canned— Cases. Fruit and vegetables of all kinds 957.596 Dairy Industry. Production Fresh milk 8,125.276	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value. \$1,915,190 Value. \$1,625,055 903,825 1,623
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Plum 9,980 Prune 103,000 Quince 395 Total fruit 272,351 Almond 10,195 Chestnut 72 Walnut 6,175 Berries, acres 525 Total 2,700 Wines, Brand	Non-bearin, 12, 225 27, 775 5, 975 250 350 2, 775 6, 770 30, 125 6, 770 30, 125 100 106 986 25, 000 28, 125 53, 146 150	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495 427,187 35,195 93 34,300 69,588 2,325 526 2,850	Almonds 305.556 Apples 50,000 Apricots 500,000 Beans 295.75 Chestnuts 3.200 Onions 988.976 Pears 30,000 Peas 145.621 Plums 375.222 Walnuts 45.966 Garlic 532.321 Vegetables in general Vegetable seeds Total Canned— Cases. Fruit and vegetables of all kinds 957.596 Dairy Industry. Production Fresh milk 8.125.276 Butter (pounds) 3,012.756	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value. \$1,915,190
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 3,900 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Plum 9,980 Prune 103,000 Quince 395 Total fruit 272,351 Almond 10,195 Chestnut 72 Walnut 6,175 Berries, acres 525 Total 2,700 Wines, Brand	Non-bearin 12, 225 27, 775 5, 975 250 350 2, 776 5, 21 10, 125 9, 995 6, 770 30, 125 25, 000 21 28, 125 53, 146 150 150	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495 427,187 35,195 93 34,300 69,588 2,325 5,25 2,850 Value. \$812,500 250,000	Almonds 305.556 Apples 50,000 Apricots 500,000 Beans 295.750 Chestnuts 3.200 Onions 988.971 Pears 30,000 Peaches 200.000 Peas 145.621 Plums 375.222 Walnuts 45,961 Garlic 532,323 Vegetables in general Vegetable seeds Total Canned— Cases. Fruit and vegetables of all kinds 957,596 Dairy Industry. Production Fresh milk 8.125.275 Butter (pounds) 3,012,756 Cheese (pounds) 8,116	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value. \$1,915,190 Value. \$1,625,055 903,825 1,623
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Plum 9,980 Prune 103,000 Quince 395 Total fruit 272,351 Almond 10,195 Chestnut 72 Walnut 6,175 Berries, acres 525 Total 2,700 Wines, Brand	Non-bearin 12, 225 27, 775 5, 975 250 350 2, 775 6, 770 30, 125 6, 770 30, 125 100 106 986 25,000 21 28, 125 53, 146 150 	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 34,450 133,125 495 427,187 35,195 93 34,300 69,588 2,325 2,850 Value. \$12,500 2,400,000 2,400,000 125,000	Almonds 305.556 Apples 50,000 Apricots 500,000 Beans 295.750 Chestnuts 3.200 Onions 988.977 Pears 30,000 Peas 145.621 Plums 375.222 Walnuts 45.961 Garlic 532,321 Vegetables in general Vegetable seeds Total Canned— Cases. Fruit and vegetables of all kinds 957.596 Dairy Industry. Production Fresh milk 8.125.277 Butter (pounds) 3,012.756 Cheese (pounds) 3,012.756 Total Total Poultry and Eggs.	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value. \$1,915,190 \$1,625,055 903,825 1,623 \$2,530,503
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 3,935 Fig 75,016 Cherry 75,016 Cherry 28,935 Fig 75,016 Chemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Pear 19,775 Plum 9,980 Prune 103,000 Quince 3955 Total fruit 272,351 Almond 10,195 Chestnut 72 Walnut 6,175 Total nut 16,442 Grapevines 2,175 Berries, acres 2,175 Berries, acres 525 Total 2,700 Wines, Brand Dry wines Sweet wines Beer (barrels) Brandy Vinegar	Non-bearing 12, 225 27,775 5,975 250 350 2,776 5521 10,125 9,995 6,770 30,125 100 986 25,000 21 28,125 53,146 150	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495 427,187 35,195 93 34,300 69,588 2,325 5,25 2,850 Value. \$812,500 250,000	Almonds 305.556 Apples 50.000 Beans 295.750 Chestnuts 3.200 Onions 988.977 Pears 30.000 Peaches 200.000 Peas 145.621 Plums 375.222 Walnuts 45.961 Garlic 532.326 Vegetables in general Vegetables of all kinds 957.596 Dairy Industry. Fresh milk Production Fresh milk 8.125.277 Cheese (pounds) 3.012.756 Cheese (pounds) 8,115 Total Total Poultry and Eggs. Dozen.	\$45,833 5,000 25,000 7,872 320 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value. \$1,915,190 \$1,625,055 903,825 1,623 \$2,530,503
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Plum 9,980 Prune 103,000 Quince 395 Total fruit. 272,351 Almond 10,195 Chestnut 72 Walnut 6,175 Total nut. 16,442 Grapevines 2,175 Berries, acres 525 Total 2,700 Wines, Brand Dry wines Sweet wines Beer (barrels) Brandy Vinegar Carbonated and soda	Non-bearin, 12,225 27,775 5,975 250 350 2,775 6,770 30,125 6,770 30,125 100 106 986 25,000 106 986 25,000 150,146 150 150 150 150 150 150 150 150 150 150	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495 427,187 35,195 93 34,300 69,588 2,325 526 2,850 Value. \$812,500 2,500,000 2,400,000 125,000 9,000	Almonds 305.556 Apples 50,000 Apricots 500,000 Beans 295.750 Chestnuts 3,200 Onions 988.971 Pears 30,000 Peaches 200.000 Peas 145.621 Plums 375.222 Walnuts 45.961 Garlic 532,322 Wegetables in general Vegetable seeds Total Canned— Cases. Fruit and vegetables of all kinds 957.592 Butter (pounds) 3,012.750 Cheese (pounds) 8,116 Total Poultry and Eggs. Chickens 20,755	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 7,166 26,618 100,000 75,000 \$386,170 Value. \$1,915,190 \$1,625,055 903,825 1,623 \$2,530,503
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 3,935 Fig 75,016 Cherry 75,016 Cherry 28,935 Fig 75,016 Chemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Pear 19,775 Plum 9,980 Prune 103,000 Quince 3955 Total fruit 272,351 Almond 10,195 Chestnut 72 Walnut 6,175 Total nut 16,442 Grapevines 2,175 Berries, acres 2,175 Berries, acres 525 Total 2,700 Wines, Brand Dry wines Sweet wines Beer (barrels) Brandy Vinegar	Non-bearin 12, 225 27, 775 5, 975 250 350 2, 775 6, 770 30, 125 6, 770 30, 125 100 106 986 25,000 21 28, 125 53, 146 150 	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 133,125 495 427,187 35,195 34,300 69,588 2,325 525 2,850 Value. \$812,500 250,000 2,400,000 125,000 9,000 551,115	Almonds 305.556 Apples 50.000 Apricots 500.000 Beans 295.750 Chestnuts 3.200 Onions 988.971 Pears 30.000 Peaches 200.000 Peas 145.621 Plums 375.222 Walnuts 45.961 Garlic 532,322 Vegetables in general Vegetable seeds Total Canned— Casea. Fruit and vegetables of all kinds 957.598 Dairy Industry. Production Fresh milk 8.125.275 Butter (pounds) 3,012.756 Cheese (pounds) 3,111 Total Poultry and Eggs. Dozen. Chickens 20,756 Ducks 722 Geese 300	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value. \$1,915,190 \$1,915,190 \$1,625,055 903,825 1,623 \$2,530,503
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Plum 9,980 Prune 103,000 Quince 395 Total fruit. 272,351 Almond 10,195 Chestnut 72 Walnut 6,175 Total nut. 16,442 Grapevines 2,175 Berries, acres 525 Total 2,700 Wines, Brand Dry wines Sweet wines Beer (barrels) Brandy Vinegar Carbonated and soda	Non-bearin, 12, 225 27, 775 5, 975 5, 975 350 2, 775 6, 770 30, 125 9, 995 6, 770 30, 125 100 106 986 25, 000 28, 125 53, 146 150	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 29,770 34,450 133,125 495 427,187 35,195 93 34,300 69,588 2,325 525 2,850 Value. \$812,500 2,400,000 125,000 9,000	Almonds 305.556 Apples 50,000 Apricots 500,000 Beans 295.756 Chestnuts 3,200 Onions 988.977 Pears 30,000 Peas 145.621 Plums 375.222 Walnuts 45.961 Garlic 532,321 Vegetables in general Vegetable seeds Total Canned— Cases. Fruit and vegetables of all kinds 957,596 Dairy Industry. Production Fresh milk 8,125.277 Butter (pounds) 3,012.756 Cheese (pounds) 3,012.756 Cheese (pounds) 20,756. Chickens 20,756 Ducks 726 Geese 300 Turkeys 55,888	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value. \$1,915,190 \$1,625 903,825 1,623 \$2,530,503 Value. \$1,24,500 6,525 3,600 16,766
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Plum 9,980 Prune 103,000 Quince 395 Total fruit 272,351 Almond 10,195 Chestnut 72 Walnut 6,175 Total nut 16,442 Grapevines 2,175 Berries, acres 525 Total 2,700 Wines, Brand Dry wines Sweet wines Beer (barrels) Brandy Vinegar Carbonated and soda water	Non-bearin, 12, 225 27, 775 5, 975 5, 975 350 2, 775 6, 770 30, 125 6, 770 30, 125 100 106 986 25, 000 28, 125 53, 146 150	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 133,125 495 427,187 35,195 34,300 69,588 2,325 525 2,850 Value. \$812,500 250,000 2,400,000 125,000 9,000 551,115	Almonds 305.556 Apples 50.000 Beans 500.000 Beans 295.750 Chestnuts 3.200 Onions 988.971 Pears 30.000 Peas 145.621 Plums 375.222 Walnuts 45.961 Garlic 532.320 Vegetables in general Vegetables of all kinds 957.596 Dairy Industry. Fresh milk Production 8.125.276 Butter (pounds) 3.012.756 Cheese (pounds) 8,116 Total Poultry and Eggs. Chickens 20.756 Cheese 300 Chickens 20.756 Geese 300 Turkeys 55.888 Eggs 1,675.128	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value. \$1,915,190 Value. \$1,625,055 903,825 1,623 \$2,530,503
Apple 15,750 Apricot 75,016 Cherry 28,935 Fig 300 Lemon 750 Olive 4,675 Orange 1,200 Peach 12,575 Plum 9,980 Prune 103,000 Quince 395 Total fruit 272,351 Almond 10,195 Chestnut 72 Walnut 6,175 Total nut 16,442 Grapevines 2,175 Berries, acres 525 Total 2,700 Wines, Brand Dry wines Sweet wines Beer (barrels) Brandy Vinegar Carbonated and soda water	Non-bearin 12, 225 27, 775 5, 975 250 350 2, 776 5, 925 350 2, 776 6, 770 30, 125 6, 770 30, 125 53, 146 150 150 150 150 150 150 150 150 150 150	z. Total. 27,975 102,791 34,910 1,100 7,150 12,171 42,700 133,125 495 427,187 35,195 34,300 69,588 2,325 525 2,850 Value. \$812,500 250,000 2,400,000 125,000 9,000 551,115	Almonds 305.556 Apples 50.000 Beans 295.750 Chestnuts 3.200 Onions 988.977 Pears 30.000 Peaches 200.000 Peas 145.621 Plums 375.222 Walnuts 45.961 Garlic 532.322 Vegetables in general Vegetables seeds Total Canned— Cases. Fruit and vegetables of all kinds 957.596 Dairy Industry. Production Fresh milk 8.125.276 Butter (pounds) 3.012.756 Cheese (pounds) 8,116 Total Poultry and Eggs. Dozen. Chickens 20.756 Cheese 300 Turkeys 55.882 Pigeons 1,500	\$45,833 5,000 25,000 7,872 320 19,779 1,500 20,000 14,562 37,522 7,166 26,616 100,000 75,000 \$386,170 Value. \$1,915,190 \$1,915,190 \$2,530,503 \$2,530,503

STATISTICS OF ALAMEDA COUNTY, 1909-10-Continued.

Miscellaneous Products.		Manufactories—Co	ntinued.	_
	Value.			
	\$2,250	<u> </u>	mujeres	Value of Products.
Nursery stock, flowers,	42,200	Drugs	50	\$475,475
plants, etc 5	00.000	Drugs	50	475,475
	75,000	Furniture	80	500,750
Eugai seem (coms) 00,000	,	Inks	83	825,000
Total \$6	77,250	Inks Jewelry and gold leaf	25	150,000
40	,	Leather goods and gloves	260	710,115
Live Stock Industry.		Lime	8	2,500
Number.	Value.	Output of foundries, in-		
	11,000	cluding products of iron		
	90,000	and steel industries	2,900	15,800,700
	55.625	Malt	17	55,725
Guernsey 12)	,	Matches	25	130,000
Herefords 110		Meat products	610	401 105
Holsteins 225		Hides		491,125
Jersey	24,075	Lard		52,550 3,100 ,750
Polled Angus 1 Red Polled 12		Tallow		35,115
Red Polled 12		Cocoanut and linseed oil.	55	575,000
Shorthorns 50)		Olive oil	25	50,000
	52,350	Paints and oils, etc	302	1,885,850
Swine : 5,164	67,132	Pickles and relishes, pic-		2,000,000
	30,000	kled olives	25	155,550
Standard-bred 875	87,500	Iron pipe	15	50,000
	48,125	Sewer pipe	150	750,000
	99,750 1,800	Planing mills, sash and		-
	58,000	door factories	1,425	4,775,775
	90,000	Potteries	49	501,115
Lambs	39,287	Salt	200	500,795
Angora goats 175		Soap	50	300,000
Common goats 225	1,750 1,125	Artificial stone, crushed	***	0.055.105
		rock, etc.	600.	
Total \$4.1	57,519	Wire	25 100	572,690 511,115
	26,000	Knitted goods Organs and pipes	100	105,000
	20,000	Marble	ř	50,000
Manufactories.		Carbonic acid gas	5 0	205.000
Number of Va		Sal soda	ĭŏ	132,000
Employees. Pro		Sugar, beet	230	700,000
Bookbinderies, job print-	FA 3.55	Syrups and extracts	27	135,550
	50,175	Spring beds	30	80,280
	51,775	Tanneries	25	250,000
	80,125	Rugs and carpets	45	101,975
	50,125	Tin and galvanized iron.	61	427,750
	75,000	Willow and wooden ware	32	55,550
	10,000	Store and office furniture	60 49	502,175 510,125
Carriages and wagons 75	75,125	Patent roofing	120	756,000
Cotton, silk and jute 610 2.0	03,750	Rubber and waterproof	140	100,000
	00,000	goods	60	175,125
Clothings and caps 700 3.0	000,000	Yeast	ğ	31,115
Coffee, spices, etc 145	50,150	Iron pyrites	8	35,000
Confectionery 585 1,7	55,550	-		
Fertilizer 60	71,515	Total	12,428	\$55,636,755
	50,225	Manufactured O	******	
Electrical supplies 25 1 Flouring mills and health	.50,000	manuactured O	utput.	Walma
	77 775	Unsegregated output		Value. \$3,015,715
10000	,	Onsegregated output		₩0,010,110

ALPINE COUNTY.

Alpine County is one of the unfortunate counties, as far as her means of communication with the other counties of the State is concerned, there being no public road maintained by her sister counties to her border, thereby rendering it necessary to turn to the state of Nevada for a route to safely reach the capital at Sacramento, or any other part of the State. This condition militates against the development of Alpine County's many natural resources, as intending investors or purchasers are not afforded a convenient route of reaching the county. This matter has been brought to the attention of many of the members of the present Legislature, and it is to be hoped that they will take some steps which will enable Alpine County to become a county of California commercially.

The resources of Alpine County are unlimited, especially in mineral, timber, and water power, the latter offering a field of immediate devel-

opment to enterprising capital.

Ultimately Alpine County will be considered California's greatest summer recreation ground, which is yearly becoming more popular with those tourists who brave the poor conditions of the roads leading from the western slope.

STATISTICS OF ALPINE COUNTY, 1909-10.

General Statistics.	Cereal Products and Hay.
Expended on roads, last fiscal	Tons of 2,000 pounds.
year, approximately \$2.00	O Acres. Tons. Value.
Number of miles of public roads 11	
Road levy per \$100, 1910 35	c Barley 70 135 3,800
	Oats 100 150 4,000
Dairy Industry.	Oats 100 100 4,000
No. Production. Value.	Total value \$20,130
Skimming stations: 23 59,000 \$18,88	0 10tar varas
	Alfalfa hay 650 2,000 \$14,000
Live Stock Industry.	Grain hay 30 50 500
Number. Value.	Grass hay 1,400 3,200 25,600
Cattle-Beef 1,280 \$51,00	
Stock 3,200 64,00	0
Dairy Cows—Graded 400 1.60	
Calves 350 4,20	O Dozen. Value.
Swine 600 3,60	0 Chickens 6,000 \$3,500
Wool (pounds) 90,000 10,80	
Most of the sheep that graze in th	12665
county are shorn in other counties.	Total value
County are shorn in other countries.	1 TOTAL TALLE

AMADOR COUNTY.

Amador adjoins El Dorado County on the south, Alpine on the west, Calaveras on the north, and Sacramento and San Joaquin counties on the east. It is inland and occupies the east central portion of the State. It has no navigable rivers. The Cosumne forms a part of its northern boundary and the Mokelumne forms its entire southern boundary. Both of the rivers are tributaries of the Sacramento. Varying, in the main, in altitude from 30 feet to 1,500 feet and in temperature from 30 degrees to 100 degrees Fahrenheit; having an average annual rainfall of 29 inches, and having land possessing every ingredient requisite in most productive soil, the county has never failed to produce a crop. There is no climatic condition of any portion of California, except the climate of the immediate seashore, but that may be found here. There is no product of any portion of the State but that may here be fostered. greater portion of the county being a rolling or foothill region, is adapted to the cultivation of any kind of farm, of horticultural, or of viticultural product.

Grain, hay, spuds, the peach and the apple, and the raisin and the wine grape, can not be excelled elsewhere in flavor or in general appearance. In many parts of the western portion of the county, a

great variety of vegetables is grown throughout the year.

Yielding (as the county does) an abundance of the best natural grasses, it offers inducements to stockmen, many of whom are awakening to a more full realization of the adaptability of this section to stockraising.

Distinctively the county is a region of mineral deposits. Besides what is used locally, two car loads and upwards of potter's clay and more than one car load of coal, are daily shipped from the county. We hope soon to have as large a shipment of fire brick. Silica is being shipped to outside markets. Other exports are lime rock, granite,

marble, sandstone, greenstone, talc and copper.

The one resource, however, that is paramount, is gold from the quartz mines. Ten large quartz mines are at present operating on a most satisfactory basis. Our county is easily reached and is healthful. A miner here does not have to endure the cold of the Klondike nor the hardships of the Nevada mining districts. Everything is favorable to the operation of mines here. Well-constructed roads make the quartz zone accessible at any point. Wood and coal for fuel are at hand; fuel oil is brought by railroad immediately upon the great quartz zone—the famous "Mother Lode"—which traverses the county from southeast to northwest. Water supplied by canals leading from mountain lakes in the Sierra Nevada Mountains, is used for motive power and for irrigation and for domestic purposes as well.

Electric power is also available. The Pacific Gas and Electric Company of California has an electric plant located upon the Mokelumne River, six miles from Jackson, the county seat. This electric works has a capacity of 27,000 horsepower, which power can operate all of the machinery of Amador County for many years hence, and is at the same time sufficient for all other local purposes. Besides this, a large amount of power is supplied to the bay cities.

An estimate made from reports of cruisers, who have recently been over the timber belt, shows that there are in the county 10,000,000,000 feet of standing timber, most of which is sugar pine, yellow pine, spruce, fir, cedar, and different varieties of oak. Although not in

such great abundance, there are many other kinds of timber.

The timber belt has from 1,000 feet to 4,000 feet greater altitude than the main mineral zone—the "Mother Lode"—which separates two regions of widely divergent interests. The resources of the western section are mill stuffs, products of the farm, the garden, etc., coal, pottery, fire brick, lime, and merchandise in general. The resources of the eastern region are lumber, round timber, lagging, shakes, shingles, charcoal, wood, marble, granite, talc, and mountain potatoes and apples that are unexcelled in appearance, flavor, and as keepers.

From these two sections solicitors, with their diversified products, come to the mines and towns along the "Mother Lode," which pro-

vide a ready market.

Amador ought to be a county of magnificent homes. Nowhere can more beautiful and inspiring landscapes, nor balmier skies, nor purer water, nor a more equable climate be found. Every kind of the best building material is right on the ground. The best architects and builders are available.

Our schools, as good as the best of the kind, capably supervised, are of the primary and grammar grades. There is also one union

high school.

Manufacturing and kindred pursuits, are making encouraging headway. We are watching with great interest the progress being made by the fire brick plant at Ione. The potteries near Carbondale are placing their products on the market. The breweries of Jackson and Sutter Creek hold their own in the open market. The several wineries do a thriving business. Two ice plants are taxed to their utmost capacity. The Amador County Steam Laundry provides employment for a great many. The local machine shops and foundry recognize no superior. The door and sash factory at Sutter Creek supplies the local demand in its line. All kinds of stone dressing is most capably and artistically done.

Mountain lakes and valleys and river canyons furnish abundant opportunity for those needing recreation, or for those that enjoy huntings and fishing. Mineral springs having medicinal properties that are prescribed in certain cases, are found in different parts of the county.

It seems that nature could not have done more in the preparation of an inland county—even the seashore is becoming more and more accessible by the shortening of distance through rapid transportation. From the main quartz zone of the county, San Francisco may now be reached in eight hours. In time this distance will be covered in five

hours. Then San Franciscans will come in greater numbers to enjoy with us this land of sunshine, fruits, and flowers, of mineral wealth, and countless opportunities for profitable and safe investment.

STATISTICS OF AMADOR COUNTY, 1909-10.

			DOR COUNTY, 1909-10.		
General Statis	tics.		Fruits, Veget	ables, Etc.	
Area, 568 square miles.				Total	
Number of farms Number of acres assessed.		852	Green-	Production.	Walna
Number of acres assessed.	:::	370,924	· ·	Pounds.	Value.
Value of country real esta	ate	\$3,086,408	Apples	429,540 406,000	\$8,590 8,120
Of improvements thereon. Of city and town lots		\$915,877 \$301,240 \$737,376 \$635,704	Blackberries	6.000	8,120 500
Of improvements thereon		\$737.376	Beans	14,000	650
Of personal property Total value of all property Expended on roads, last		\$635,704	Beets	14,000 13,000 22,000	260
Total value of all property	7	\$5,875,535	Cabbage	22,000	440
Expended on roads, last	fiscal	***	Celery	3,500	350
year		\$22,000	Celery Cauliflower Corn	2,000 180,000	200
Expended for bridges, las		\$7,500	Currents	400	3,600 40
Road levy per \$100, 1910 Railroads, steam—miles, 20		30c	Currants	100	2,100
Railroads, steam—miles, 20	0: as-	000	Figs		1,250
sessed value		\$2,628,212	Gooseberries		20
Electric power plants — 2	2; as-	****	Grapes		814
sessed value	~ 50.	\$223,50 0	Loganberries Nectarines	600 25,500	60 1,300
Electric power lines—mile assessed value	8, 52,	\$30,000	Onions	120,000	2,400
Number of acres irrigated.	• • • • •	6,000	Oranges (boxes)	50	150
4		-,	Olives	26,000	1,600
Cereal Products as	nd Hay.		Pears	390,700	8,000
Tons of 2,000 pou	ınds.		Peaches	421,000	8,670
Acres.	Tons.	Value.	Peas	8,000 500	400
Wheat 4,000	1,500	\$60,000	Plums	73 000	$\substack{25\\1.500}$
Barley 4,250	900	31,500 18,000	Irish potatoes	73,000 875,000	1,520
Oats 2,240	600	18,000	Sweet potatoes	1,000	20
Corn 320	640	25,600	Prunes	320,000	1,600
Total cereals . 10,810	3,640	\$135,100	Quinces	19,000	410
•	-		Raspberries Strawberries	750 4, 000	190 600
Alfalfa hay 1,200	6,150	\$92,250 132,720 13,200	Tomatoes	3,600	100
Grain hay 4,200 Grass hay 1,200	9,040 1,200	132,720	20110000		100
Grass nay 1,200		10,200	Totals	11,344,740	\$154,955
Total hay 6,600	16,390	\$238,170			•
			Delail	Theres 4 -	TT - 1
Number of Fruit Tree			Dried—	Pounds.	Value.
Bearing. No	on-bearing	. Total.	Almonds	4,000	\$500
Bearing. No	on-bearing 1,300	r. Total. 12.650	Almonds	4,000 15,000	\$500 1,600 45
Bearing. No	on-bearing 1,300 112	r. Total. 12.650	Almonds	4,000 15,000 1,500 12,500	\$500 1,600 45
Bearing. No. Apple	on-bearing 1,300 112 126	7. Total. 12,650 3,027 3,079	Almonds Apples Beans Chestnuts Currants	4,000 15,000 1,500 12,500 1,500	\$500 1,600 45 1,525 150
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs	0n-bearing 1,300 112 126	Total. 12,650 3,027 3,079 1,250	Almonds Apples Beans Chestnuts Currants Figs	4,000 15,000 1,500 12,500 1,500 1,000	\$500 1,600 45 1,525 150 60
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 65 Nectoring 1,052	on-bearing 1,300 112 126 10	Total. 12,650 3,027 3,079 1,250	Almonds Apples Beans Chestnuts Currants Figs Grapes	4,000 15,000 1,500 1,500 1,500 1,000 400	\$500 1,600 45 1,525 150 60 40
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 65 Nectoring 1,052	on-bearing 1,300 112 126 10 10 90	Total. 12,650 3,027 3,079 1,250	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines	4,000 15,000 1,500 12,500 1,500 1,000 400	\$500 1,600 45 1,525 150 60 40
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 65 Nectoring 1,052	on-bearing 1,300 112 126 10 10 90 185	Total. 12,650 3,027 3,079 1,250	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears	4,000 15,000 1,500 12,500 1,500 1,000 400	\$500 1,600 45 1,525 150 60 40
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 65 Nectoring 1,052	on-bearing 1,300 112 126 10 90 185 1,200	r. Total. 12,650 3,027 3,079 1,250 1,062 2,340 1,385 14,600	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onlons Pears Peaches	4,000 15,000 1,500 1,500 1,500 1,000 400 2,000 112,000 320,000 27,000	\$500 1,600 45 1,525 150 60 40
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 65 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Pear 10,840	on-bearing 1,300 112 126 10 10 90 185 1,200 645	r. Total. 12,650 3,027 3,079 1,250 1,062 2,340 1,385 14,600	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onlons Pears Peaches	4,000 15,000 1,500 1,500 1,500 1,000 400 2,000 112,000 320,000 27,000	\$500 1,600 45 1,525 150 60 40 200 2,250 2,750 2,200 3,200
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 1,052 Chetarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Pear 10,840 Plum 10,655	on-bearing 1,300 112 126 10 90 185 1,200	r. Total. 12,650 3,027 3,079 1,250 1,062 2,340 1,385 14,600 11,485 10,770	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Pears Peaches Plums Prunes	4,000 15,000 1,500 12,500 1,500 1,000 2,000 112,000 320,000 27,000 360,000 127,500	\$500 1,600 45 1,525 150 60 200 2,250 2,750 2,200 3,200 7,700
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs	on-bearing 1,300 112 126 10 90 185 1,200 645 120	z. Total. 12,650 3,027 1,250 75 1,062 2,340 1,385 14,600 11,485 10,770 14,750	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins	4,000 15,000 1,500 1,500 1,500 1,500 1,000 2,000 112,000 320,000 27,000 360,000 127,500 1,200	\$500 1,600 45 1,525 150 60 200 2,250 2,250 2,200 3,200 7,700 95
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 6 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Pear 10,840 Plum 10,650 Prune 14,106 Quince 740	on-bearing 1,300 112 126 10 90 185 1,200 645 120	r. Total. 12,650 3,027 3,079 1,250 1,062 2,340 1,385 14,600 11,485 10,770	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Pears Peaches Plums Prunes	4,000 15,000 1,500 12,500 1,500 1,000 2,000 112,000 320,000 27,000 360,000 127,500	\$500 1,600 45 1,525 150 60 200 2,250 2,750 2,200 3,200 7,700
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 65 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Peach 13,400 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125	on-bearing 1,300 112 126 10 10 90 185 1,200 645 120 15	t. Total. 12,650 3,027 3,079 1,250 1,062 2,340 1,385 14,600 11,485 10,770 14,750 125	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins	4,000 15,000 1,500 1,500 1,500 1,500 1,000 2,000 112,000 320,000 27,000 360,000 127,500 1,200	\$500 1,600 45 1,525 150 60 200 2,250 2,250 2,200 3,200 7,700 95
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs Lemon 65 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Pear 10,840 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125 Total fruit 74,481	on-bearing 1,300 112 126 10 10 90 185 1,200 645 120 4,517	r. Total. 12,650 3,027 3,079 1,250 1,062 2,340 1,385 14,600 11,485 10,770 14,750 125 78,998	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts	4,000 15,000 1,500 1,500 1,500 1,000 400 2,000 112,000 320,000 27,000 360,000 127,500 1,200	\$500 1,600 45 1,525 150 60 40 2,250 2,250 2,250 2,200 3,200 7,700 95 1,500
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 68 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Pear 10,840 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125 Total fruit. 74,481 Almond 5,566	on-bearing 1,300 112 126	r. Total. 12,650 3,027 3,079 1,250 75 1,062 2,340 1,385 14,600 11,485 10,770 14,750 12,55 755 78,998 6,345	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals	4,000 15,000 1,500 1,500 1,500 1,000 400 2,000 112,000 320,000 27,000 360,000 127,500 1,200 125,000	\$500 1,600 45 1,525 150 60 40 2,250 2,250 2,250 2,200 3,200 7,700 95 1,500
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 65 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Pear 10,840 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125 Total fruit. 74,481 Almond 5,565 Chestnut 2,125 Pecan 25	on-bearing 1,300 1112 126 10 10 90 185 1,200 645 120 15	r. Total. 12,650 3,027 3,079 1,250 75 1,062 2,340 1,385 14,600 11,485 10,770 14,750 125 755 125 2,345 2,135	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Manufac	4,000 15,000 1,500 1,500 1,500 1,500 1,000 2,000 112,000 320,000 27,000 360,000 127,500 125,000 386,100	\$500 1,600 1,600 45 1,525 60 40 200 2,250 2,750 2,200 7,700 95 1,500 \$23,835
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 6 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Peach 13,400 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125 Total fruit 74,481 Almond 5,565 Chestnut 2,125 Pecan 25 Walnut 1,260	on-bearing 1,300 1,302 112 126 10 10 90 185 1,200 645 1,200 4,517 780 10 200	z. Total. 12,650 3,027 3,079 1,250 75 1,062 2,340 1,385 14,600 11,485 10,770 14,750 125 755 2,135 2,135 2,135	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Manufac	4,000 15,000 1,500 1,500 1,500 1,500 1,000 2,000 112,000 320,000 27,000 360,000 127,500 125,000 386,100	\$500 1,600 1,600 45 1,525 60 40 200 2,250 2,750 2,200 7,700 95 1,500 \$23,835
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs	on-bearing 1,300 1112 126 10 10 90 185 1,200 645 120 15	r. Total. 12,650 3,027 3,079 1,250 75 1,062 2,340 1,385 14,600 11,485 10,770 14,750 125 755 125 2,345 2,135	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Manufac	4,000 15,000 1,500 1,500 1,500 1,500 1,000 2,000 112,000 320,000 320,000 127,500 125,000 386,100 tories. Number of Kingleyees.	\$500 1,600 1,600 45 1,525 60 40 200 2,250 2,750 2,200 7,700 95 1,500 \$23,835
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 65 Lemon 65 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Pear 10,840 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125 Total fruit 74,481 Almond 5,565 Chestnut 2,125 Pecan 25 Walnut 1,260 Other nuts 10	on-bearing 1,300 1112 126 10 10 90 185 1,200 645 1,200 15 4,517 780 10 200	r. Total. 12,650 3,027 3,079 1,250 75 1,062 2,340 1,385 14,600 11,485 10,770 14,750 125 78,998 6,345 2,135 2,135 1,460	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Manufac	4,000 15,000 1,500 1,500 1,500 1,500 1,500 1,000 400 2,000 112,000 27,000 27,000 127,500 1,200 125,000 386,100 tories. Number of No. Employees. 1 25	\$500 1,600 1,600 45 1,525 60 40 200 2,250 2,750 2,200 7,700 95 1,500 \$23,835
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 6 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Pear 10,840 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125 Total fruit. 74,481 Almond 5,565 Chestnut 2,125 Pecan 25 Walnut 1,260 Other nuts 10 Total nut. 8,985	on-bearing 1,300 1,302 112 126 10 10 90 185 1,200 645 120 15	r. Total. 12,650 3,027 3,079 1,250 75 1,062 2,340 1,385 14,600 11,485 10,770 14,750 755 125 78,998 6,345 2,135 2,135 2,135 1,460 10,740 10,740 10,750	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Manufact Brick Carriages and wagons	4,000 15,000 1,500 12,500 1,500 1,000 400 2,000 112,000 320,000 27,000 127,500 125,000 386,100 386,100 tories. Number of No. Employees. 1 25 2 8	\$500 1,600 1,600 45 1,525 150 60 40 200 2,250 2,750 2,276 2,7700 95 1,500 \$23,835
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 1.052 Cherry 2,959 Figs 2.250 Olive 2,250 Orange 1,200 Peach 13,400 Pear 10,840 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125 Total fruit. 74,481 Almond 5,565 Chestnut 2,125 Pecan 25 Walnut 1,260 Other nuts 10 Total nut 8,985 Grapevines 371,560	0n-bearing 1,300 1112 1126 10 10 90 185 1,200 645 120 15	r. Total. 12,650 3,027 3,079 1,250 765 2,340 1,385 14,600 11,485 10,770 10,750 755 2,135 2,135 2,135 4,460 10,9998 6,345 2,135 4,460 10,9998 6,345 4,460 10,9998 6,345 4,460 10,9998	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Manufact Brick Carriages and wagons	4,000 15,000 1,500 12,500 1,500 1,000 400 2,000 112,000 320,000 27,000 127,500 125,000 386,100 386,100 tories. Number of No. Employees. 1 25 2 8	\$500 1,600 1,600 45 1,525 150 60 40 200 2,250 3,200 3,200 95 1,500 \$23,835
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs	on-bearing 1,300 1,302 112 126 10 10 90 185 1,200 645 120 15	r. Total. 12,650 3,027 3,079 1,250 75 1,062 2,340 1,385 14,600 11,485 10,770 14,750 755 125 78,998 6,345 2,135 2,135 2,135 1,460 10,740 10,740 10,750	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Manufact Brick Carriagesand wagons Cement Cigars Coal	4,000 15,000 1,500 1,500 1,500 1,500 1,000 2,000 112,000 320,000 127,500 125,000 386,100 tories. Number of No. Employees. 1 25 8 1 25 1 2 3 20	\$500 1,600 1,600 45 1,525 150 60 40 2,250 2,250 2,250 3,200 7,700 95 1,500 \$23,835
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 2,959 Figs 6 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Peach 13,400 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125 Total fruit 74,481 Almond 5,565 Chestnut 2,125 Pecan 25 Walnut 1,260 Other nuts 10 Total nut 8,985 Grapevines 371,560 Berries, acres 40	on-bearing 1,300 1,112 1126 10 10 90 185 1,200 645 120 15	r. Total. 12,650 3,027 3,079 1,250 765 2,340 1,385 14,600 11,485 10,770 10,750 755 2,135 2,135 2,135 4,460 10,9998 6,345 2,135 4,460 10,9998 6,345 4,460 10,9998 6,345 4,460 10,9998	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Manufact Brick Carriages and wagons Cement Cigars Coal	4,000 15,000 1,500 1,500 12,500 1,500 1,000 400 2,000 112,000 27,000 320,000 27,000 127,500 125,000 386,100 tories. Number of No. Employees. 25 2 25 2 3 20 1 2 3 1	\$500 1,600 1,600 45 1,525 160 40 200 2,250 2,750 2,200 7,700 95 1,500 \$23,835 Value of Producta.
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs Lemon 65 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Pear 10,840 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125 Total fruit 74,481 Almond 5,565 Chestnut 2,125 Walnut 1,260 Other nuts 10 Total nut 8,985 Grapevines 371,560 Berries, acres.	on-bearing 1,300 1112 126 10 10 90 185 1,200 645 125 125 10 200 200 36,000	r. Total. 12,650 3,027 3,079 1,250 1,062 2,340 1,385 14,600 11,485 10,750 755 125 78,998 6,345 2,135 2,135 2,135 1,460 1,460 10,	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Manufact Brick Carriages and wagons Cement Cigars Coal	4,000 15,000 1,500 1,500 1,500 1,500 1,000 2,000 112,000 320,000 127,500 125,000 386,100 tories. Number of No. Employees. 1 25 8 1 25 1 2 3 20	\$500 1,600 1,600 45 1,525 150 60 40 2,250 2,250 2,250 3,200 7,700 95 1,500 \$23,835
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs	on-bearing 1,300 1112 126 10 10 90 185 1,200 15 1,200 15 4,517 780 10 200 36,000	r. Total. 12,650 3,027 3,079 1,250 1,062 2,340 11,485 14,600 11,485 14,750 755 2,135 2,135 2,135 2,135 407,560 407,560	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Manufac Brick Carriages and wagons Cement Cigars Coal Electrical supplies Ffoundries and iron	4,000 15,000 1,500 1,500 1,500 1,500 1,500 1,000 400 1,000 320,000 27,000 320,000 127,500 1,200 125,000 386,100 tories. Number of No. Employees. 1 2 8 1 2 3 20 1 5	\$500 1,600 1,600 45 1,525 160 40 200 2,250 2,750 2,200 7,700 95 1,500 \$23,835 Value of Products. \$125,000 100,000 12,000
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs	on-bearing 1,300 1112 126 10 10 90 185 1,200 645 125 125 10 10 200 36,000 4,517 780 10 36,000	r. Total. 12,650 3,027 3,079 1,250 1,062 2,340 11,485 14,600 11,485 14,750 755 2,135 2,135 2,135 2,135 407,560 407,560	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Manufac Brick Carriages and wagons Cement Cigars Coal Electrical supplies Ffoundries and iron	4,000 15,000 1,500 12,500 1,000 400 2,000 112,000 320,000 27,000 127,500 125,000 386,100 tories. Number of No. Employees. 1 25 8 1 2 3 20 1 5 2 255	\$500 1,600 1,600 45 1,525 150 60 40 200 2,250 3,200 3,200 7,700 95 1,500 \$23,835
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs	on-bearing 1,300 1112 126 10 10 90 185 1,200 645 1,200 155	z. Total. 12,650 3,027 3,079 1,250 75 1,062 2,340 1,385 14,600 11,485 10,770 14,750 125 78,998 6,345 2,135 2,135 2,135 1,460 10 9,975 407,560 40 Value. \$4,375 1,000 43,200	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Brick Carriages and wagons Cement Cigars Coal Electrical supplies Flouring mills Foundries and iron works Ice	4,000 15,000 1,500 1,500 1,500 1,500 1,000 400 2,000 112,000 320,000 27,000 127,500 125,000 125,000 386,100 tories. Number of No. Employees. 1 25 2 8 1 2 2 3 20 1 2 5 3 10 1 20	\$500 1,600 1,600 45 1,525 60 40 200 2,250 2,750 2,200 7,700 95 1,500 \$23,835 Value of Producta. \$125,000 100,000 5,000 12,000 65,000 75,000
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs Lemon 65 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Pear 10,840 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125 Total fruit 74,481 Almond 5,565 Chestnut 2,125 Walnut 1,260 Other nuts 10 Total nut 8,985 Grapevines 371,560 Berries, acres 6 Wines, Brandies Beer (barrels) Beer (barrels) Beer (barrels) Beer (barrels) Beer (barrels) Beer (barrels)	on-bearing 1,300 1112 126 10 10 90 185 1,200 645 125 1,200 10 4,517 780 10 200 36,000 4, Etc. allons. 775,000 5,400 750	r. Total. 12,650 3,027 3,079 1,250 75 1,062 2,340 1,385 14,600 11,485 10,775 125 78,998 6,345 2,135 2,136 2,136 1,460 40 Value. \$4,375 1,000 43,200 1,500	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Manufact Brick Carriages and wagons Cement Cigars Coal Electrical supplies Ffouring mills Foundries and iron works Ice Lime Mait	4,000 15,000 1,500 1,500 1,500 1,000 400 2,000 132,000 320,000 127,500 125,000 386,100 tories. Number of No. Employees. 1 25 2 28 1 22 3 20 1 5 2 25 3 10 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1	\$500 1,600 1,600 45 1,525 150 60 40 200 2,250 3,200 3,200 7,700 95 1,500 \$23,835
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 2,959 Figs 6 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Pear 10,840 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125 Total fruit 74,481 Almond 5,565 Chestnut 2,125 Pecan 25 Walnut 1,260 Other nuts 10 Total nut 8,985 Grapevines 371,560 Berries, acres 40 Wines, Brandies Wines, Brandies Beer (barrels) Brandy Cider 6	on-bearing 1,300 1112 126 10 10 90 185 1,200 645 1,200 10 4,517 780 10 990 36,000 2,500 2,500 5,400 7500 150	z. Total. 12,650 3,027 3,079 1,250 75 1,062 2,340 1,385 14,600 11,485 10,770 14,750 755 2,135 2,135 2,135 2,135 407,560 40 Value. \$4,375 1,000 43,200 1,500	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Manufact Brick Carriages and wagons Cement Cigars Coal Electrical supplies Ffoundries and iron works Lime Mait Meat products	4,000 15,000 1,500 1,500 1,500 1,500 1,000 400 2,000 112,000 320,000 27,000 127,500 125,000 125,000 386,100 tories. Number of No. Employees. 1 25 2 8 1 2 2 3 20 1 2 5 3 10 1 20	\$500 1,600 1,600 45 1,525 160 40 200 2,250 2,760 2,200 7,700 95 1,500 \$23,835 Value of Producta. \$125,000 100,000 12,000 65,000 11,000 23,000
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 2,959 Figs 2,250 Orange 1,200 Peach 13,400 Pear 10,840 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125 Total fruit. 74,481 Almond 5,565 Chestnut 2,125 Pecan 25 Walnut 1,260 Other nuts 10 Total nut. 8,985 Grapevines 371,560 Berries, acres 40 Wines, Brandies Dry wines 1 Sweet wines 1 Beer (barrels) Brandy Cider Vines 2,959 Cider Vinegar	on-bearing 1,300 1112 1126 10 10 90 185 1,200 645 120 15	z. Total. 12,650 3,027 3,079 1,250 75 1,062 2,340 1,385 14,600 11,485 10,770 14,750 125 78,998 6,345 2,135 2,135 2,135 1,460 10 9,975 407,560 40 Value. \$4,375 1,000	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Manufact Brick Carriages and wagons Cement Cigars Coal Electrical supplies Ffouring mills Foundries and iron works Lee Lime Matt Meat products Hides	4,000 15,000 1,500 1,500 1,500 1,000 400 2,000 132,000 320,000 127,500 125,000 386,100 tories. Number of No. Employees. 1 25 2 28 1 22 3 20 1 5 2 25 3 10 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1	\$500 1,600 1,600 45 1,525 150 60 40 200 2,250 3,200 3,200 95 1,500 \$23,835 Value of Producta. \$125,000 100,000 12,000 12,000 12,000 12,000 12,000 12,000
Apple 11,350 Apricot 2,915 Cherry 2,959 Figs 2,959 Figs 6 Nectarine 1,052 Olive 2,250 Orange 1,200 Peach 13,400 Pear 10,840 Plum 10,650 Prune 14,106 Quince 740 Other kinds 125 Total fruit 74,481 Almond 5,565 Chestnut 2,125 Pecan 25 Walnut 1,260 Other nuts 10 Total nut 8,985 Grapevines 371,560 Berries, acres 40 Wines, Brandies Wines, Brandies Beer (barrels) Brandy Cider 6	on-bearing 1,300 1112 126 10 10 90 185 1,200 645 125 125 10 10 200 36,000 4,517 780 10 200 36,000 5, Etc. allons. 75,000 5,4000 1500 1,000	z. Total. 12,650 3,027 3,079 1,250 75 1,062 2,340 1,385 14,600 11,485 10,770 14,750 125 78,998 6,345 2,135 2,135 2,135 1,460 10 9,975 407,560 40 Value. \$4,375 1,000	Almonds Apples Beans Chestnuts Currants Figs Grapes Nectarines Onions Pears Peaches Plums Prunes Raisins Walnuts Totals Manufact Brick Carriages and wagons Cement Cigars Coal Electrical supplies Ffoundries and iron works Lime Mait Meat products	4,000 15,000 1,500 1,500 1,500 1,500 1,500 1,000 400 1,000 1	\$500 1,600 1,600 45 1,525 160 40 200 2,250 2,760 2,200 7,700 95 1,500 \$23,835 Value of Producta. \$125,000 100,000 12,000 65,000 11,000 23,000

STATISTICS OF AMADOR COUNTY, 1909-10-Continued.

Poultry and	Eggs.		Forest Produ	ucts.	
·	Dozen.	Value.		Amount.	Value.
Chickens	3,600	\$15,550	Area of timber lands		
Ducks	40	240	(acres)	70,400	
Geese	žŏ	240	Cedar (acres)	400	
Turkeys	100	2,500	Pine (acres)	70,000	
Eggs	60.000	15,000	Sawmills (number)	3	
13689	00,000	10,000	Charcoal (sacks)	10.000	
Total value		\$33,480	Fuel, wood (cords)	8,000	
Total value	• • • • • • •	400, 100		320,000	
Miscellaneous I	Products.			130,000	
	Pounds.	Value.	Posts (pieces)	10,000	
Bees (hives)-Number	7	\$9	Sash and door fac-	_0,000	
Sorghum—Cane	730.000	1.825	tories (number)	1	
Tobacco	500	50	Shakes (thousand)	50	
Gold ore crushed	800,000	3.900	Shingles (thousand)	25	
		0,000		167.000	\$11,775
Live Stock In	ndustry.				110,000
	Number.	Value.			110,000
Cattle—Beef	250	\$5,000	Total value		\$353.775
Stock	11,000	132,000	Power used for mills a		
Dairy Cows-Graded	2,300	4,600			
Shorthorn bulls	-,,8	160	in county—Steam (numb	er), 14;	electrical
Calves	1.200	6.000	(number), 7; water (num	iber), i.	
Swine	1.400	5,600			
Horses-Thoroughbred	-,6	4,000	Manufactured (Output.	
Standard-bred	6	2,000			Quantity.
Common	2.200	9,900	Clay		\$35,000
Colts	250	6,250	Coal (tons)		16,000
Jacks and jennies	5	250	Flour (barrels)		2,000
Mules	180		Lime (barrels)		10,000
Sheep	2.000	4,000	Malt (tons)		375
Lambs	100	100	Hides (pounds)		8,250
Common goats	700		Lard (pounds)		23,000
Wool (pounds)	20.000	\$24,000	Tallow (barrels)		100
Mohair (pounds)	100	2,000	Olive oil (gallons)		150

BUTTE COUNTY.

Butte County is situated in the northern and eastern Sacramento Valley, and embodies within its confines both mountain, foothill, and valley land. Its climate is most diverse, and in its confines are grown all the products to be found in the temperate and semi-tropical zones. The county has been fittingly described as a sample package of the United States. In the higher altitudes, apples thrive, while in the lower stretches of the rolling foothills, oranges, lemons, and olives reach perfection. On the broad plains great rice fields are now being planted, and this industry promises to rival that of alfalfa and dairy farming and the more extensive grain farming that has hitherto prevailed. Deciduous fruits of every kind are grown. In fact, there is hardly a product of the United States that in some part of Butte County can not be grown to a commercial extent.

The transportation facilities are unexcelled. This, however, is a comparatively new condition. The Western Pacific passes through the county. The Central and Southern Pacific also traverse it with main and branch lines. Its cities are also reached by the Northern Electric. The Butte County Railroad extends from Chico into the mountains as far as Stirling City, while the Butte and Plumas Railway is now build-

ing from Oroville into another rich mountain country.

The coming of transportation facilities has brought a great increase in the number of factories. The Diamond Match Company has the largest lumbering establishment on the Pacific Coast in this county, the main mills being located at Chico and Stirling City. The Truckee Lumber Company has just completed a large mill at Oroville. The Swayne Lumber Company has also built a large mill in the mountains east of Oroville, on the Western Pacific. The timber industry here has accordingly assumed mammoth proportions.

The largest olive pickling works in the United States are located in Oroyille. A large number of smaller mills, and olive oil works are also located in the same field. There are also a number of orange packing

houses, and many drying yards and canneries.

The manufacture of electric power has also assumed a large place. The largest producer is the Great Western Power Company, whose plant upon the Feather River is the largest in the United States. The Pacific Gas and Electric Company has also large plants here, and the Oro Water, Light and Power Company is also a big producer. Other power plants are in contemplation. Civil engineers have stated that the watershed of the Feather River contains more potential power than the anthracite coal fields of Pennsylvania.

The county is exceptionally well watered. Through it runs the Feather River with a large number of tributary streams. On one boundary is the great Sacramento River. As a result of the abundance of water, increased attention is being given to irrigation. The Butte



County Canal covers thousands of acres around Gridley, where the utmost prosperity prevails. Other companies are establishing themselves, both in the valley and on the rolling foothill lands.

Educational facilities are unexcelled. There are three high schools in the county, all accredited at the University of California. At Chico

is located a State normal school.

The county is now at the beginning of a great forward movement and optimism prevails everywhere. The reason for the faith of the people in their county is to be found in the fact that the productivity of the land assures increased values to the land, while the faith with which capital regards the county can be seen in the tremendous investments made here.

The stamp of approval has been placed upon the lands of Butte County by the experts of the United States Government. After searching the United States over, lands near Chico were selected for the establishment of the United States Plant Introduction Gardens, and there the chief experimental work conducted by the United States is being carried forward to-day.

Butte County is also the largest gold-producing county of the State. The chief gold-dredging field in the world lies around Oroville, and millions are invested in the industry. An increasing investment in quartz and gravel properties is also being made.

STATISTICS OF BUTTE COUNTY, 1909-10.

General Statistics.		Number of	Renit T	rees and Vi	nec
	990 0000		Bearing.	Non-bearing.	Total.
Area 1,727 square miles, or 1,105		Apple	37.050	17.543	54.593
Number of farms	2,480	Apricot	12.964	796	13,760
Number of acres assessed	900,511 \$10,688,130	Cherry	5,697	3,317	9,014
Value of country real estate	\$2,475,190	Fig	12,627	2,560	15.187
Of improvements thereon	1,193,525	Lemon	7,027	355	7.382
Of city and town lots Of improvements thereon	\$2,118,905	Nectarine	"9 <u>1</u> 9	26	945
Of personal property	\$3,709,479	Olive	67,571	10,563	78.134
Total value of all property		Orange	178.611	19,811	198,422
	4-0,200,0-0	Peach	277,825	66,380	344,205
Expended on roads, last fiscal	*** ***	Pear	21,943	6,315	28,258
year	\$ 66,2 4 3	Plum	12,968	2,068	15,036
Expended for bridges, last fis-	4110.000	Prune	142,435	38,079	180,514
cal year	\$113,868	Quince	669	49	718
Number of miles of public roads	1,710 40c	Other kinds	2,000	1,250	3,250
Road levy per \$100, 1910	\$262,000		500.000	100.110	
Value of county buildings Irrigating ditches, miles, 296;	\$202,000	Total fruit		169,110	949,418
	\$93,567	Almond	93,336	26,159	119,495
Railroads, steam—miles, 160.42;	φυυ,υυι	Chestnut	565	50	615
assessed value	\$2,500,896	Pecan	135	60	195
Railroads, electric—miles, 50.36;	4 2,000,000	Walnut	3,470	1,905	5,375
assessed value	\$25,807	M-4-14	07.500	00.154	105.000
Electric power plants - 4; as-		Total nut		28,174	125,680
sessed value	\$1,408,287	Grapevines		20,375	231,909
Electric power lines - miles,		Berries, acres.	233	25	258
157.01; assessed value	\$90,853	Por	ultry and	Eggs.	
Number of acres irrigated	18,500			Dozen.	Value.
Court Designed and He	_	Chickens		11,904	\$71,424
Cereal Products and Hay	7.	Ducks		89	534
Tons of 2,000 pounds.		Geese		41	545
Acres. Bushels.		Turkeys		1,798	53.940
Wheat 44,642 908,333	\$735,749	Eggs		470,250	117,560
Barley 49,792 1,347,365	606,314				
Oats 3,906 143,800	57,520	Total value .			\$244,003
Corn 396 15,421	12,550			Products.	
Total cereals 98,736 2,414,919	\$1,412,133	I III	a.i.eous		W-1
		Door (hiron) n		Pounds.	Value.
Acres. Tons.	Value.	Bees (hives), n		1,310 950	\$3,930
Alfalfa hay 13,138 59,678 Grain hay 57,442 53,795	\$341,685	Beeswax		20,985	250 2,098
Grass hay 1,329 1,721	430,460 8,605	Honey		247.000	32.110
Grass nay 1,325 1,721	8,000	Alfalfa seed		4,800	850
Total hay 71,929 115,194	\$780.750	Grass seed		13,000	1.300
•	ψ. 30, 130	Sorghum, cane		136,475	250
Fish Industry.		Syrup (gallons)		285	142
Pounds.	Value.	Sugar beets (to		56,515	240,000
Salmon 104.253	\$6,255	Rice		437,500	17,400

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STATISTICS OF BUTTE COUNTY, 1909-10-Continued.

Fruits, Vegetables, Etc.		Live Stock Industry.	
Total		Number.	
Green— Production. Pounds.	Value.	Cattle—Beef 19,625	\$785,000
Apples 3,392,695 Apricots 117,970 Asparagus 23,200	\$33,926 1,180	Cattle—Beef 19,625 Stock 13,160 Dairy Cows—Graded 3,761	\$785,000 315,840 188,050
Apricots	1,180	Thoroughbred	
	1,160 11,920	Holsteins 25	1,500 39,940 1,330,330
Blackberries 238,330 Beans 163,025 Beets 53,250 Cabbage 125,000 Celery 28,190 Cauliflower 11,485 Corn 180,760 Currants 750 Cherries 204,860 Figs 100,500	7,500	Shorthorns(calves) 3,994 Calves 40,565	1.330.330
Beets 53,250	795 1,875	Swine	917,000
Cabbage 125,000 Celery 28,190	845	Horses—Thoroughbred 12 Standard-bred 168	15,000
Cauliflower 11,435 Corn 180,760 Currants 750	575	Common 8.926	33,600 624,820 37,555
Corn 180,760	3,420 65	Colts 1 073	37,555
Cherries 204,860	10,243	Jacks and Jennies 17	4,700
Figs 100,500	2,010	Mules	244.710
Cherries 204,860 Figs 100,500 Gooseberries 2,750 Grapes 1,063,500 Grape fruit (boxes) 890 Lemons (boxes) 2,193 Loganberries 81,350 Notations 90,500	275 8,000	Sheep 81,570 Lambs 8,300	4,700 233,550 244,710 18,600
Grape fruit (boxes) 890	2,790	Angora goats 1,325 Common goats 950	5,300 2,750
Lemons (boxes) 2,193 Loganberries 81,350 Nectarines 92,500 Onions 17,150	6 5 7 1		
Nectarines 92,500	3,254 925	Total stock 159,337	\$3,467,915
Onions	5 715	Wool (pounds) 695,500	97,370
Qranges (boxes) 203,890	305,835	Mohair (pounds) 12,000	2,400
Oranges (boxes) 203,890 Olives 1,670,000 Pears 1,051,000 Peaches 10,022,000	305,835 41,750 21,500 100,200	Forest Products.	
Peaches	100,200	Amount.	Value.
	790	Area of timber lands	1 41401
Persimmons 9,500 Plums 1,762,400 Irish potatoes 1,809,000 Sweet potatoes 231,000	760 17 625	(acres) 350,000	
Irish potatoes 1,809,000	17,625 18,090	Cedar (acres) 35,000 Pine (acres) 140,000	
Sweet potatoes 231,000	3,365 970	Fir (acres) 175,000	
Prunes 9,600 Quinces 22,000 Raspberries 24,600 Strawberries 93,500 Tompatoes 565,000	450	Sawmills (number) 8 Fuel, wood (cords) 15,700	\$50 20A
Raspberries 24,600	2.460	Laths (thousand) 519 000	\$58,380 2,765
Strawberries 93,500	4,675	Lumber (feet)63,000,000	2,765 1,221,500 1,900
	5,650	Laths (thousand) 519 000 Lumber (feet) 63,000,000 Posts (pieces) 19,000 Raliroad ties (pieces) 40,000	1,900
Turnips 36,000 Rhubarb 5,000 Pumpkins (tons) 2,266	360 250	Sash and door fac-	10,000
Pumpkins (tons) 2,266	4,530	tories (number) 1	75,000
Totals24,441,074	\$611,944	Shakes	3,590 20,000
Dried Pounds	Value.		
Almonds 685.000	\$ 92 050	Total value	
Apples 5,000 Apricots 70,500 Beans 7,000 Chestnuts 5,900	2,500 7,500	Power used for mills and main county—Steam (number) 14	nufactories
Beans 7,000	2,800	in county—Steam (number), 14 (number), 13; water (number),	5.
Chestnuts 5,900	2,800 5,900	Manufactories.	
Chestnuts	13,750 80		of Value of
Grapes 4,000 Nectarines 2,500	150	Number No. Employee	
Onions 344,000	3,450	Wood boxes 1 50	
Pears 55,000 Peaches 4,168,000 Peanuts 2,000 Plums 46,900	4,400 208,425	Cigars 2 4 Confectionery 2 6	4,800 7,800
Peanuts 2,000	100	Flouring mills 2 15	255,000
Prunes 46,900	2,815	Foundries and Iron	
Plums 46,900 Prunes 3,004,500 Raisins 75,000	150,225 3,000	Works 1 40	252,000 150,000
Raisins	2,625	Meat products 16 85 Hides	
Totals 8,955,300	\$505,770	Hides	46,800
• •		Lard	46,800 11,796 2,700
Canned— Cases. Blackberries 100	Value. \$250	Tallow	10,800
Pears 400	1,000	Olive oil and pickled	
Peaches 40,500	101,250	Planing mills 4 92	450,000
Tomatoes 500	1,250	Granise 1 7	30,000
Totals 41,500	\$103,750	Wines, Brandies, Etc.	
Manufactured Output.		Gallons.	Value.
	Quantity.	Dry wines	\$1,000 1,044
Brick	100,000	Cider 2,000	1,000
Grick Cigars Flour (barrels) Hides (pounds) Lard (pounds) Meat packed (pounds) Tallow (barrels) Olive oil (gallons) Pickled olives	250,000	Vinegar	1,000 30,750
Figur (Darrels)	25,000 512,000 98,300		
Lard (pounds)	98.300	Dairy Industry.	
Meat packed (pounds)	15,000	No. Production.	Value.
Olive oil (gallons)	600 56,975	Creameries 2 Skimming stations. 15	
Pickled olives	97,400	Butter (pounds) 366,485	\$109,945



COLUSA COUNTY.

Colusa County is situated in the heart of the great Sacramento Valley. The transportation facilities are the Southern Pacific Railroad, bisecting the county from north to south, the Colusa and Lake Railroad, running from Colusa westwardly to Sites, and the navigable Sacramento River.

The fertile soil, the temperate climate, the extreme dryness of the atmosphere during two thirds of the year, and lastly, a sufficient rainfall, make possible the production of great wealth from the fertile acres of this county. The present tendency is the disintegration of the large farms and a settling up of the county with small holdings. Several millions of dollars have recently been invested by land companies, who will induce people from other places to settle upon lands purchased by them in this county. Large irrigation ditches are being constructed that will tap thousands of acres of land which by the assistance of water will be able to produce many fold more than is now produced. Everything gives promise that the population, that the irrigated portion of our land area, and the value of our lands, will more than treble during the next five years.

The system of schools throughout the county is very efficient, and although the county is large, the schools are conveniently located and within reach of those desiring education.

Colusa is the principal town and county seat of the county. Its population, including two additions, is about 2,500 inhabitants. It has a primary, grammar, and high public schools, besides a convent. The town owns its own public library, municipal water works system and sewer system, all recently installed.

The western portion of the county is principally mountainous, with some very productive valleys intervening. Cattle and live stock interests prevail. Several famous mineral resorts are located in this portion of the county, and thousands of bottles of mineral water are shipped to every point of note on the Pacific coast. In a small way some gold and quicksilver mining is maintained at Sulphur Creek, while at Sites two quarries take out stone, known as the famous Colusa sandstone, from which many prominent buildings in San Francisco are built.

STATISTICS OF COLUSA COUNTY, 1909-10.

General Statistics.	General Statistics—Continued.
Area, 691,200 acres. Number of farms	Expended for bridges, last fis- cal year
Value of country real estate \$9.215.44	Koad levy per \$100, 1910
Of improvements thereon \$509,14 Of personal property \$1,506,71	assessed value
Total value of all property \$12,992,53 Expended on roads, last fiscal year \$39,52	tric power lines (miles), 16; assessed value



STATISTICS OF COLUSA COUNTY, 1909-10-Continued.

			COUNTY, 1909-10-Conti		
Number of Fruit Tr Bearing.	rees and Non-bearin		Fruits, Vegeta	ables, Etc. Total	
Apple 8,125		8,125	2	Production. Pounds.	
Apricot 18.870	500	19,370	Green— Apples	40,000	Value. \$800
Cherry 2,475 Fig 4,450	1,800	2,475 6,250	Blackberries	3,500	150
Lemon 900	100	1,000 6,700 10,000	Beans	3,500 4,000	80
Olive 6,600 Orange 9,500	100 500	10.000	Beets	3,500 50,000	85 800
Peach 13 000		13,000	Celery	25,000	510
Pear 3,700		3,700	Cauliflower	15,000	225 400
Prune 85,000 Quince 130	5,800 30	90,800 160	Figs	29,000 35,000 125,000	380
Other kinds 250		250	Grapes	125,000	1,500
Total fruit., 153,000	8,830	161,830	Grape fruit Lemons (boxes)	4,000 250	250 500
·			Loganberries	3.000	250
Almond 25,600 Walnut 3,800	5,000 900	30,600 4,700	Onions Oranges (boxes)	42,000	220
			Olives	42,000 5,000 25,000	11,250
Total nut 29,400	5,900	35,300	Pears	50.000	1,250
Grapevines (all kinds) .		92,000	Peaches	12,500 15,000	250 150
Berries, acres (all kinds	3)	75	Irish potatoes		3.900
Live Stock I			Irish potatoes Sweet potatoes Tomatoes	22,000 400,000	250
Cattle Book	Number.	Value.	Tomatoes	400,000	500
Cattle—Beef Stock	$1,500 \\ 17,200$	\$45,000 244,000	Totals	1,823,500	\$23,700
Dairy Cows—Graded	4,802	100,000	Dried	Pounds.	Value .
Calves	$\frac{4,802}{21,540}$	244,000 100,000 48,020 175,000	Almonds	140,000	\$14,000
Swine	8	4,000	Apricots	32,000	2,420
Common	4,700	235.000	Beans	50 000	44,960 2,500
Colts	1,100 69	22,000 5,000	Peaches Prunes Raisins	16,000	900
Mules	5.844	500,620 320,000	Prunes	250,000	47,000 28,000
Sheep	80,000 52,000	320,000 104,000	Walnuts	8,000 30,000	800
Lambs	3,500	17,500	Silver prunes	30,000	1,250
Total stock	194,763	\$1,920,140	Totals	4,058,000	\$141,830
		150,000	Forest Pro		
Wool (pounds) Mohair (pounds)	756,000 13,500	2,600	Forest Fr	Amount.	Value.
Cereal Products	and Hav		Sawmills (number)	1	\$3,000
Tons of 2,000			Fuel, wood (cords)	900	7,200
Acres.	Tons.	Value.	Total value		\$10,200
Wheat 21,200 Barley180,000	$18,566 \\ 108,803$	\$519,848 2 176 000	Power used for mills		factories
Oats 500	425	2,176,000 13,000 42,000	in county—Steam (number)	mber), 1;	electrical
Corn 1,400	1,200	42,000	(number), 3; 1 sawmill, ing mills.	, I liouriiii	i, z pian-
Total cereals203,100	132,774	\$2,750,848	Poultry and		
Alfalfa hay	36,000	228,000	Gh. L. Van and	Dozen.	Value.
Grain hay	60,798	480,000	Chickens	3,504 40	\$20,024 240
Total hay	96,798	\$708,000	Geese Turkeys	15	120
Wines, Brand	ies, Etc.		Eggs	1,350 125,000	25,000 31,250
	Gallons.	Value.		_	
Sweet wines	4,000 1,600	\$5,000	Total value	• • • • • • • • • • • • • • • • • • • •	\$ 76,634
Cider		1,800	Miscellaneous	Products.	
Fish Indu	Pounds.	Value.		Pounds.	Value.
Bass	15,000	\$1,500	Bees (hives), number.	800	\$1,600
Dairy Ind	•	,	Broomcorn brush	310,000 190,000	\$1,600 15,000 1,900
	roduction.	Value.	Honey	310,000 190,000 180,000	27,000
Creameries		\$2,500	Broomcorn seed	350,000	22,540
Butter (pounds)	502,000	200,000	Dressed poultry Wild game	150,000 75,000	10,500 4,000
Manufactured	Output.			•	-, . /•
Flour (horrela)		Quantity.	Manufact		Value of
Flour (barrels) Hides (pounds)		15,000 90,000		Number of in Finiployees.	Products.
Lard (pounds)		90,000 68,230	Flouring mills	1 5	\$120,500
Tallow (barrels)		63,400	Sandstone	2 20	75,000

CONTRA COSTA COUNTY.

Contra Costa is one of the central counties, its shore line being within 14 miles of San Francisco. It possesses unusually good traveling facilities, both by rail and by steamer. The county has 70 miles of water front, nearly all of which is upon deep water, navigable by all vessels engaged in commerce. Over three fourths of its area is cultivated, the balance being used for grazing. The only mountain of any size is Mount Diablo, which is 3.896 feet in height, and almost in the geographical center of the county.

About two thirds of the area is rolling and hilly. Lying between the hills are some of the most fertile and beautiful valleys in the State, which are drained and watered by many streams, the banks of which are bordered by oak, sycamore, laurel, willow, etc., while the hills are dotted with oaks, many of which are of large size.

The farming lands in the eastern section are between the foothills and the San Joaquin River. The soil is of a rich alluvial nature, and produces wheat, barley, alfalfa, fruit, and vines. To the northward and between the uplands and the San Joaquin River is a body of tule lands, a large portion of which has been reclaimed, and is some of the most productive land in the State, being a rich deposit of sediment and decomposed vegetation. Alfalfa, asparagus, potatoes, beans, etc., are produced on the largest scale on such lands, the asparagus being shipped East by the car load during the early spring.

The average rainfall is from 18 to 23 inches, which is ample for all

purposes of agriculture, horticulture, etc.

In depth, the soil throughout the county shows a remarkable continuity of rich alluvial deposits underlaid by limestone or clay. There is an occasional change to a coarse sandy and gravelly heavy loam of black or brown tint. It has great power for enduring drought, and is easy to work, giving large returns. The soil in the uplands is in character similar to that of the lowlands, and being drier, is for some purposes even better.

Irrigation is not required to insure crops; the abundant rainfall, the absence of evaporating heat, and the moisture-laden breezes from the ocean furnish abundant humidity for all forms of vegetable life without

recourse to artificial irrigation.

The many beautiful valleys and the rolling hills are strikingly similar in general characteristics to the gentle slopes of sunny France. tered in all directions are numerous small vineyards and orchards that produce rich results. Fruit growing has proved successful and remunerative.

Grain raising is very prominent in this county. A very large acreage is planted to wheat, oats, barley, and hay.

The raising of sugar beets is a growing industry.

Vegetables of all kinds are raised very profitably and on a large scale: one very large tract of land is used entirely for the propagation of



asparagus for early Eastern shipment. Potatoes, beans, etc., are a prolific and profitable crop, especially in the central portion.

Natural feed is abundant, both on the hillsides and at a higher eleva-

tion.

Stock raising is a leading industry, as the reclaimed lowlands for summer grazing and the rolling hills for winter, close together, create conditions whereby a failure is impossible. The stock farms have produced some of the most famous trotting and pacing horses. In addition to the raising of horses, much attention is given to blooded cattle, sheep, and hogs.

Large dairies are conducted, and in the western end the product mostly shipped to the cities is milk, while in the central and eastern parts butter is the main object. Low freight and express rates give

unusual advantages.

Contra Costa County is well adapted to poultry raising. Feed can be obtained cheaper than in other sections where the industry is thriving. The central part of the county is only a few hours' drive from Oakland and suburbs. The demand for eggs is always greater than the supply.

The only important mining industry is the coal mines of Mount Diablo, although some little mining for precious metals has been done.

The terminus of the Santa Fe Railroad is located at Point Richmond, and many substantial improvements in the way of wharves, etc., on a very extensive plan, have been constructed.

Post Costa, the shipping point for the bulk of the grain raised in

California, has extensive warehouses.

At Pinole are located large stockyards; near Vallejo Junction is the largest smelting works in the State; at Vallona are extensive lumber yards, where ships from Oregon and Puget Sound discharge. At Crockett are flouring mills; also agricultural works.

STATISTICS OF CONTRA COSTA COUNTY, 1909-10.

		•		
General Statistics.	Number of	Fruit T	rees and V	ines.
Area 877 square miles, or 561,267 acres.		Bearing.	Non-bearing.	Total.
Value of country real estate \$13,417,780	Apple	23,000	3,000	26,000
Of improvements thereon \$4,837,145		44.000	4,000	
	Apricot		4,000	48,000
	Cherry	25,000	6,000	31,000
Of improvements thereon \$2,495,805	Fig	4,000	600	4,600
Of personal property \$7,421,725	Lemon	1,000	300	1,300
Total value of all property \$35,399,378	Nectarine	1,000	300	1,300
Expended on roads, last fiscal	Olive	15,000	4,000	19.000
year \$84,903	Orange	3,400	600	4,000
Road levy per \$100, 1910 40c	Peach	65,000	4.000	69,000
Value of county buildings \$415,000	Pear	120,000	5,000	125,000
Railroads, steam—miles, 163.54;	Plum	21,000	1,000	22,000
assessed value \$3,405,163	Prune	80,000	12,000	92,000
Electric power lines—miles,	Quince	3,000	250	3,250
198: assessed value \$175,000	Quince	3,000	200	0,200
130, assessed value \$110,000	Total fruit	405,400	41,050	446,450
	Total Truit	400,400	41,000	440,400
Cereal Products and Hay.	Almond	280,000	10,000	290,000
Tons of 2,000 pounds.	Chestnut	500	10,000	500
Acres. Bushels. Value.	Pecan	500		500
	Walnut		20,000	50,000
Wheat 16,000 560,000 \$672,000	wamut	50,000	20,000	50,000
Barley 50,000 3,000,000 1,500,000	W-4-14	011 000	80.000	041 000
Oats 15,000 900,000 405,000	Total nut	311,000	30,000	341,000
Corn 1,000 40,000 30,000	Grapevines3	450 500	340,400	3,790,900
			•	500
Total cereals. 90,000 \$2,607,000	Berries, acres	500	• • • • • • •	900
Acres. Tons. Value.	R	orest Pro	ducte	
		0.000		
Alfalfa hay 2,500 15,000 \$120,000	D-3 (0		Amount.	Value.
Grain hay 90,000 200,000 2,400,000	Redwood (acre			*******
Grass hay 10,000 25,000 200,000	Fuel, wood (con	ras)	16,000	\$96,000
Total hav 102 500 240,000 \$2,720,000	Total value			\$96,000



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STATISTICS OF CONTRA COSTA COUNTY, 1909-10—Continued. Fruits, Vegetables, Etc., Wines, Brandies, Etc.

riuits,	Vegetables, Etc.		Wines, Brandie	es, Etc.	
	Total			Gallons.	Value.
	Production.		Dry wines 6,		\$960,000
Green-	Pounds.	Value.	Beer (barrels)	12.000	84.000
Apples	150,000	\$4, 500	Cider	52,000	5,800
Apricots	840,000		Vinegar	25,000	5,000
Beets	2,000,000	5,000	vinegar	25,000	.0,000
Celery	1,000,000	100,000	Number of wineries, 6	հ. ոսա <u>ի</u>	er of dis-
Corn	200,000	30,000	tilleries. 6: number of bro	eweries	3
Cherries	2,000,000	80,000	dinorios, o, number of bri	CWCIICB,	0.
Figs	12,000	600		<u>.</u> .	
Gooseberries	2,000		Live Stock In	dustry.	
Grapes, table	24,000,000	60,000		Number.	Value.
Lemons (boxes)	1,000	1,600	Cattle—Beef	8.000	\$200,000
Loganberries	12,000	500	Stock	9.250	165,000
Onions		20,000	Dairy Cows—Graded	10,000	300 ,000
Oranges (boxes)	1,200	1,700	Calves	8,000	
Olives	500,000	10,000	Swine	10.000	• • • • • • • • • • • • • • • • • • • •
Pears		30,000	Horses—Thoroughbred	75	15.000
Peaches	1,900,000	47,500	Standard-bred	175	24.000
Plums	20,000	3,000		6.400	320,000
Irish potatoes	102,000,000	18,000	Common	2,000	40,000
Prunes	1,300,000	26,000	Colts	2,000	3.000
Quinces	22,000	440		2.000	110,000
Raspberries	4,000	360	Mules	20.000	50,000
Strawberries	12,000	600	Sheep	7,000	10.500
Tomatoes	800,000	8,000	Lambs		
			Angono goota	900	400
			Angora goats	200	400
	117,676,300	\$1,311,960	Angora goats	200	400
Totals	117,676,300	\$1,311,960		,	400
Totals	117,676,300 Pounds.	\$1,311,960 Value.	Angora goats Manufactor	ies.	
Totals Dried— Almonds	Pounds. 1,800,000	\$1,311,960 Value. \$216,000	Manufactor	ies. Number o	f Value of
Totals Dried— Almonds Apricots	Pounds1,800,000 2,200,000	\$1,311,960 Value. \$216,000 15,400	Manufactor No.	ies. Number o Employees	f Value of
Totals Dried— Almonds Apricots Beans	Pounds	\$1,311,960 Value. \$216,000 15,400 90,000	Manufactor No. Wood boxes 1	ies. Number o Employees	f Value of Products.
Totals Dried— Almonds Apricots Beans	Pounds. 1,800,000 2,200,000 1,500,000 250,000	\$1,311,960 Value. \$216,000 15,400 90,000 15,000	Manufactor	ies. Number o Employees 300 450	f Value of Products. \$800,000 2,400,000
Totals Dried— Almonds Apricots Beans Pears Peaches		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 8,400	Manufactor	Number of Employees 300 450 200	f Value of Products. \$800,000 2,400,000 1,500,000
Totals Dried— Almonds Apricots Beans Pears Peaches Prunes		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 8,400 48,000	Manufactor	Number of Employees 300 450 200 25	f Value of Products. \$800,000 2,400,000 1,500,000 20,000
Totals Dried— Almonds Apricots Beans Pears Peaches		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 8,400	Manufactor No. Wood boxes 1 Brick 7 Cement 1 Cigars 5 Confectionery 3	Number of Employees 300 450 200 25 10	f Value of Products. \$800,000 2,400,000 1,500,000 20,000 10,000
Totals Dried— Almonds Apricots Beans Pears Peaches Prunes Walnuts		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 8,400 48,000 19,200	Manufactor No. Wood boxes 1 Brick 7 Cement 1 1 Cigars 5 Confectionery 3 Flouring mills 2	Number of Employees 300 450 200 25	f Value of Products. \$800,000 2,400,000 1,500,000 20,000
Totals Dried— Almonds Apricots Beans Pears Peaches Prunes Walnuts		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 8,400 48,000	Manufactor	ies. Number of Employees 300 450 200 25 10 20	Froducts. \$800,000 2,400,000 1,500,000 20,000 10,000 200,000
Totals Dried— Almonds Apricots Beans Pears Peaches Prunes Walnuts Totals		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 8,400 48,000 19,200	Manufactor No.	ies. Number of Employees 300 450 200 25 10 20	f Value of Products. \$800,000 2,400,000 1,500,000 20,000 10,000
Totals Dried— Almonds Apricots Beans Pears Peaches Prunes Walnuts Totals		\$1,311,960 Value. \$216,000 15,400 90,000 8,400 48,000 19,200 \$412,000	Manufactor	ies. Number of Employees 300 450 200 25 10 20 26	f Value of Products. \$800,000 2,400,000 1,500,000 20,000 10,000 200,000
Totals Dried— Almonds Apricots Beans Pears Peaches Prunes Walnuts Totals Poul		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 8,400 19,200 \$412,000 Value.	Manufactor No.	ies. Number of Employees 300 450 200 25 10 20 26 50 500	f Value of Products. \$800,000 2,400,000 1,500,000 200,000
Totals Dried— Almonds Apricots Beans Pears Pears Peaches Prunes Walnuts Totals Poul Chickens		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 8,400 48,000 19,200 \$412,000 Value. \$120,000	Manufactor No.	ies. Number of Employees 300 450 200 25 10 20 26 500 60	f Value of \$800,000 2,400,000 1,500,000 200,000
Totals Dried— Almonds Apricots Beans Pears Peaches Prunes Walnuts Totals Poul Chickens Ducks		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 8,400 19,200 \$412,000 Value. \$120,000 5,400	Manufactor No.	ies. Number of Employees 300 450 200 25 10 20 26 500 500 60 125	f Value of Froducts. \$800,000 2,400,000 15,000,000 200,000 10,000 500,000
Totals Dried— Almonds Apricots Beans Pears Pears Peaches Prunes Walnuts Totals Poul Chickens Ducks Geese		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 8,400 48,000 19,200 \$412,000 Value. \$120,000 5,400 16,000	Manufactor No.	ies. Number of Employees 300 450 200 25 10 20 26 50 500 60	f Value of 1. Products. \$800,000 2,400,000 1,500,000 200,000 10,000 500,000
Totals Dried— Almonds Apricots Beans Pears Peaches Prunes Walnuts Totals Poul Chickens Ducks Geese Turkeys		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 48,000 19,200 \$412,000 Value. \$120,000 16,000 12,000	Manufactor	ies. Number of Employees 300 450 200 25 10 20 26 500 500 125 500	f Value of \$800,000 2,400,000 1,500,000 200,000 10,000 50,000 500,000
Totals Dried— Almonds Apricots Beans Pears Pears Peaches Prunes Walnuts Totals Poul Chickens Ducks Geese		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 8,400 48,000 19,200 \$412,000 Value. \$120,000 5,400 16,000	Manufactor No.	ies. Number of Employees 300 450 200 25 10 20 26 500 60 125 500 3,200	f Value of 1. Products. \$800,000 2,400,000 1,500,000 200,000 10,000 500,000
Totals Dried— Almonds Apricots Beans Pears Pears Peaches Prunes Walnuts Totals Poul Chickens Ducks Geese Turkeys Eggs		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 48,000 19,200 \$412,000 Value. \$120,000 16,000 12,000 262,500	Manufactor No.	ies. Number of Employees 300 450 200 25 10 26 50 500 125 500	f Value of \$800,000 2,400,000 1,500,000 200,000 10,000 50,000 500,000
Totals Dried— Almonds Apricots Beans Pears Pears Peaches Prunes Walnuts Totals Poul Chickens Ducks Geese Turkeys Eggs		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 48,000 19,200 \$412,000 Value. \$120,000 16,000 12,000	Manufactor	ies. Number of Employees 300 450 200 25 10 20 26 500 60 125 500 3,200	f Value of \$800,000 2,400,000 1,500,000 200,000 10,000 50,000 500,000
Totals Dried— Almonds Apricots Beans Pears Pears Peaches Prunes Walnuts Totals Poul Chickens Ducks Geese Turkeys Eggs Total value		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 48,000 19,200 \$412,000 Value. \$120,000 16,000 12,000 262,500	Manufactor No.	ies. Number o Employees 300 450 200 25 10 20 26 50 60 125 500 3,200	f Value of \$800,000 2,400,000 1,500,000 200,000 10,000 50,000 500,000
Totals Dried— Almonds Apricots Beans Pears Peaches Prunes Walnuts Totals Chickens Ducks Geese Turkeys Eggs Total value Miscell		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 48,000 19,200 \$412,000 Value. \$120,000 16,000 12,000 262,500	Manufactor	ies. Number o Employees 300 450 200 25 10 20 26 500 125 500 400 1,000	f Value of . Products. \$800,000 2,400,000 1,500,000 20,000 10,000 500,000
Totals Dried— Almonds Apricots Beans Pears Pears Peaches Prunes Walnuts Totals Poul Chickens Ducks Geese Turkeys Eggs Total value		\$1,311,960 Value. \$216,000 15,400 90,000 15,000 48,000 19,200 \$412,000 Value. \$120,000 16,000 12,000 262,500	Manufactor No.	ies. Number o Employees 300 450 200 25 10 20 26 50 60 125 500 3,200	f Value of \$800,000 2,400,000 1,500,000 200,000 10,000 50,000 500,000

DEL NORTE COUNTY.

Del Norte is the extreme northwestern county of California and has a coast line of about 35 miles. Crescent City, the county seat and principal harbor, is 280 miles from San Francisco.

Smith and Klamath are the principal streams, the former in the northern and the latter in the southern part of the county. navigable near their mouths to small ocean-going steamers. and lumbering are the principal industries. The mountains of the

county prospect well in copper and gold-bearing formations.

Crescent City is the chief shipping point. Products usually are sent to the San Francisco market. The county is rich in undeveloped mineral resources. Indications are that a railroad will be built up and down the coast to the county and from the interior. Fruit raising is beginning to engage the attention of the residents. With transportation facilities, Del Norte is destined to become one of the apple-producing regions of California.

STATISTICS OF DEL NORTE COUNTY, 1909-10.

WILCO T'940 PART	e miles, (or 989,000	acres.
Number of farm	s		152
Number of acres	assesse	d	214,279
Value of country	real est	ate \$3	3,741,197
Of improvement	s thereon	1	\$89,404
Of city and tow	n lots		\$86,975
Of improvement	s thereon	n	\$136,880
Of personal prop	ortv		\$308,150
Total value of a	ll proper	tur \$4	1.363,606
Expended on ro	an proper		.,000,000
Expended on it	Jaus, Iasi	liscai	\$13,000
year Expended for b	midasa la	at Aa	#13,000
Expended for b	riuges, is	ist ms-	99 000
cal year Number of miles			\$3,000
Number of miles	or public	c roads	135
Road levy per \$1	100, 1910.		40c
Value of county	building	8	\$22,000
Railroads, steam	ı—miles,	20; as-	
sessed value .			\$35,000 i
sessed value . Electric power	plants	1; as-	
sessed value .			\$3,500
Dobbou .u.u.		••••	1
	Products		l
Wheat, 200 acres Barley, 300 acres Oats, 1,500 acres		re 25 bu. to	acre.
Parlow 200 acre	9 9776rg	re 30 hu t	o acre
Oota 1 500 acres	OVATOR	a 95 hu to	acre
Grain sells on a	avcrag	f \$20 par	ton.
Grain sens on a	iverage o		wii.
~	、		
Grain hay, 2,000	tons—a	verage 2 t	ons per
Grain hay, 2,000 acre.		verage 2 t	i
Grain hay, 2,000 acre. Grass hay, 3,000		verage 2 t	i
Grain hay, 2,000 acre. Grass hay, 3,000 acre.	tons—av	verage 2 t erage 1½	tons per
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges for	tons—av	verage 2 t erage 1½ o \$18 per	tons per
Grain hay, 2,000 acre. Grass hay, 3,000 acre.	tons—av	verage 2 t erage 1½ o \$18 per	tons per
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place	tons—av rom \$10 t of produ	verage 2 terage 1½ of \$18 per ection.	tons per ton, fed
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges for	tons—av rom \$10 t of produ	verage 2 terage 1½ of \$18 per ection.	tons per ton, fed nes.
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place	tons—av rom \$10 t of produ Fruit Tre	verage 2 terage 1½ of \$18 per ection.	tons per ton, fed nes.
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place Number of	tons—av rom \$10 t of produ Fruit Tre Bearing.	verage 2 terage 1½ o \$18 per ction.	tons per ton, fed nes. Total.
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place Number of Apple	tons—av rom \$10 t of produ Fruit Tre Bearing. 4,500	verage 2 terage 1½ o \$18 per ction. ess and Vi Non-bearing. 1,000	tons per ton, fed nes. Total. 5,500
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place Number of Apple Cherry	tons—av rom \$10 t of produ Fruit Tre Bearing. 4,500 250	verage 2 t erage 1½ o \$18 per ction. es and Vi Non-bearing. 1,000	tons per ton, fed nes. Total.
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges from stily on place Number of Apple	tons—av rom \$10 t of produ Fruit Tre Bearing. 4,500 250 400	verage 2 terage 1½ o \$18 per ction. ees and Vi Non-bearing. 1,000	tons per ton, fed nes. Total. 5,500 250 400
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place Number of Apple Cherry Peach Pear	rons—av rom \$10 t of produ Fruit Tre Bearing. 4,500 250 400 500	verage 2 terage 1½ o \$18 per ction. ees and Vi Non-bearing. 1,000	tons per ton, fed nes. Total. 5,500 250 400 700
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fi mostly on place Number of Apple Cherry Peach Pear Plum	tons—av rom \$10 t of produ Fruit Tre Bearing. 4,500 250 400 500 500	verage 2 terage 1½ co \$18 per ction. ess and Vi Non-bearing. 1,000	tons per ton, fed nes. Total. 5,500 250 400 700 650
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place Number of Apple Cherry Peach Pear	rons—av rom \$10 t of produ Fruit Tre Bearing. 4,500 250 400 500	verage 2 terage 1½ o \$18 per ction. ees and Vi Non-bearing. 1,000	tons per ton, fed nes. Total. 5,500 250 400 700
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fi mostly on place Number of Apple Cherry Peach Pear Plum	tons—av rom \$10 t of produ Fruit Tre Bearing. 4,500 250 400 500 500 250	verage 2 terage 1½ co \$18 per ction. ess and Vi Non-bearing. 1,000	tons per ton, fed nes. Total. 5,500 250 400 700 650
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place Number of Apple	tons—av rom \$10 t of produ Fruit Tre Bearing. 4,500 250 400 500 250 6,400	verage 2 terage 1½ co \$18 per ction. es and Vi Non-bearing. 1,000	tons per ton, fed nes. Total. 5,500 250 400 700 650 500
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place Number of Apple Cherry Peach Pear Plum Prune Total fruit Granevines (all	tons—av rom \$10 t of produ Pruit Tre Bearing. 4,500 250 400 500 500 250 6,400 kinds)—	verage 2 terage 1½ co \$18 per ction. ves and Vi Non-bearing. 1,000 150 250 1,600 10 acres.	tons per ton, fed nes. Total. 5,500 250 400 700 650 500
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place Number of Apple	tons—av rom \$10 t of produ Fruit Tre Bearing. 4,500 250 400 500 500 250 6,400 kinds)— ds)—25 a	verage 2 terage 1½ o \$18 perction. tes and Vi Non-bearing. 1,000 250 1,600 10 acres. cres.	tons per ton, fed nes. Total. 5,500 250 400 700 650 500
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place Number of Apple Cherry Peach Pear Plum Prune Total fruit Granevines (all	tons—av rom \$10 t of produ Fruit Tre Bearing. 4,500 250 400 500 500 250 6,400 kinds)— ds)—25 a	verage 2 terage 1½ o \$18 perction. tes and Vi Non-bearing. 1,000 250 1,600 10 acres. cres.	tons per ton, fed nes. Total. 5,500 250 400 700 650 500
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place Number of Apple Cherry Peach Peach Pear Plum Prune Total fruit. Grapevines (all kin All used for h	tons—av rom \$10 t of produ Fruit Tre Bearing. 4,500 250 400 500 500 500 6,400 kinds)— ds)—25 a come cons	verage 2 terage 1½ o \$18 perction. tes and Vi Non-bearing. 1,000 150 250 1,600 10 acres. cres. sumption.	tons per ton, fed nes. Total. 5,500 250 400 700 650 500
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place Number of Apple Cherry Peach Pear Plum Prune Total fruit. Grapevines (all kin All used for h	tons—av rom \$10 t of produ Fruit Tre Bearing. 4,500 250 400 500 250 250 6,400 kinds)— ds)—25 a come cons , Vegetab	verage 2 terage 1½ o \$18 perction. tes and Vi Non-bearing. 1,000 150 250 1,600 10 acres. cres. sumption.	tons per ton, fed nes. Total. 5,500 250 400 700 650 500
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place Number of Apple Cherry Peach Pear Plum Total fruit. Grapevines (all Berries (all kin- All used for h Fruits Apples, 65 tons,	tons—av rom \$10 t of produ Fruit Tre Bearing. 4,500 250 400 500 250 6,400 kinds)— ds)—25 a come cons , Vegetab	erage 1½ o \$18 perction. es and Vi Non-bearing. 1,000 200 150 250 1,600 10 acres. cres. sumption. les, Etc.	tons per ton, fed nes. Total. 5,500 250 400 700 650 500
Grain hay, 2,000 acre. Grass hay, 3,000 acre. Hay ranges fr mostly on place Number of Apple Cherry Peach Pear Plum Prune Total fruit. Grapevines (all kin All used for h	tons—av rom \$10 t of produ Fruit Tre Bearing. 4,500 250 400 500 250 6,400 kinds)—25 a tome cons , Vegetab	erage 1½ o \$18 perction. es and Vi Non-bearing. 1,000 200 150 250 1,600 10 acres. cres. sumption. les, Etc.	tons per ton, fed nes. Total. 5,500 250 400 700 650 500

Strawberries-enough for home consump-

Tomatoes—enough for home consumption.

General Statistics. Area 1,546 square miles, or 989,000 acres.

Fish Indi	astry.	
	Pounds.	Value.
Salmon (cases)	8.000	\$56,000
Other kinds (barrels)	300	3,000
Fresh salmon (shipped		3,777
to Eureka)		1,500
		
Total		\$ 60, 50 0
Dairy Ind	lustry.	
	Production.	Value.
Butter (pounds) about	1.000.000	\$250,000
Number of creamerie	s. 9: skim	ming sta-
tions, 1.	•	•
Live Stock	Industry.	
	Number.	Value.
Cattle-Beef	1,000	\$20,000
Stock, calves, etc	1,500	25.000
Dairy Cows—Graded	4,000	75,000 17,000
Swine	2,000	17,000
Horses-Thoroughbred	5	2,500
Standard-bred	10	3,500
Common	450	22,500
Colts	100	2,500
Mules	10	1,200
Sheep	1,200	4,800
Lambs	500	1,200
Angora goats	200	1,000
Common goats	150	30 0
Wool (pounds)	25,000	
Poultry and	i Eggs.	
•	Dozen.	Value.
Chickens	450	\$1.800
Ducks	4	24
Turkeys	24	60 0
Eggs		1.200
1155°		

Forest Products.

\$3.624

Area of timber lands (acres), 146,000. Redwood (acres), 100,000. Timber values range from \$15 to \$250

Total value

per acre.

per acre. Sawmills, 2. valued at about \$300,000. Lumber, about 32,000,000 feet, including short stuff—average value \$15 per thouincluding sand.

Shingles, 17,000,000.

Power used for mills and manufactories in county—Steam, 2; electrical, 1.

Manufactories.

Meat products—Hides, 30 ton tons; meat packed, 130 tons. 30 tons; lard, 71/2

EL DORADO COUNTY.

El Dorado County is situated on the western slope of the Sierra Nevada Mountains, in the eastern portion of the State. The county is about 75 miles long and about 30 miles in width. The western portion of the county borders the Sacramento Valley, and is used principally for grazing, stock raising, and wine vineyards. The central portion of the county includes the great mineral belt, known as the Mother Lode, from which millions of dollars have been extracted on and near the surface. This belt affords great opportunities for capital, as deep mining is but in its infancy. In this belt, which is chiefly foothills, can be found some of the best fruit lands in the State, El Dorado County being noted for the size and flavor of its apples, pears, plums, peaches, and other fruits.

The eastern portion, being at an altitude of from 3,000 to 7,000 feet, supplies summer pasturage for a vast number of cattle, sheep, and horses. In this region water is abundant, awaiting capital and labor to harness the everflowing streams. Most of this area is covered by a virgin growth of sugar and white pine, fir, and cedar timber, from which the eastern markets are supplied with a portion of their high-grade lumber.

STATISTICS OF EL DORADO COUNTY, 1909-10.

			•		
General Statistics.		Number of	Fruit T	rees and Vi	nes.
Area 1,796 square miles, or 1,049	.440 acres.	ĺ	Bearing.	Non-bearing.	Total.
Number of farms	2,485	Apple	5,900	2,800	8,700
Number of acres assessed	637,968	Apricot	600	350	950
Value of country real estate	\$3,266,515	Cherry	2.600	900	3,500
Of improvements thereon	\$671,955	Fig	1,550		1.550
Of city and town lots	\$252,485	Nectarine	1,700	500	2,200
Of improvements thereon	\$502,780	Olive	3,800	500	4,300
Of personal property	\$632,415	Orange	900	100	1,000
Total value of all property	\$6,142,658	Peach	125,500	14.800	140,300
Expended on roads, last fiscal		Pear	12,500	10,000	22,500
year	\$22,165	Plum	5,800	500	6,300
Expended for bridges, last fis-		Prune :	18,000	600	18,600
cal year	\$5,000	Quince	500		500
Number of miles of public roads	760	Other kinds	15,000	1,000	16,000
Road levy per \$100, 1910	40c	·			
Value of county buildings	\$15,000	Total fruit	194,350	32,050	226,400
Irrigating ditches — miles, 160;	****	Almond	1.000		1,000
cost	\$370,000	Chestnut	500	• • • • • • • •	500
Railroads, steam — miles, 92;	0011 040	Walnut	750	900	1.650
assessed value	\$911,243	Other nuts	100		1,050
Electric power plants - 1; as-	e01 715	Other nuts	100	••••••	100
sessed value	\$91,71 5	Total nut	2,350	900	3,250
Electric power lines—miles, 36;	\$18,000	Total nut	2,000	300	0,200
assessed value	\$18,000	Grapevines	332,700	900	333,600
Number of acres irrigated—	15,960	Berries, acres.	60	20	80
By irrigating canals By springs and small	15,500	777:		11 174	
streams	10,000	Wind	s, branc	lies, Etc.	
streams	10,000	1		Gallons.	Value.
Cereal Products and Hay		Dry wines		12,800	\$5,000
	, .	Sweet wines		8,000	8,000
Tons of 2,000 pounds.		Beer (barrels)		1,200	12,000
Acres. Tons.	Value.	Brandy		7,000	14,000
Wheat 200 200	\$9,000	Cider		_ 600	150
Barley 100 100	4,800	Vinegar		7,000	1,750
Oats 100 100	4,500	Number of w	ineries,	5; number o	f distil-
		leries, 4; numb			
Total cereals 400 400	\$ 18,300	1 ' '		•	
Grain hay 44,000	\$528,000	1	Dairy Ind		
Grass hay 2,000	15,000		1	Production.	Value.
		Butter (pounds)	220,000	\$70,000
Total hay 46,000	\$543,000	Cheese (pounds			2,809

STATISTICS OF EL DORADO COUNTY, 1909-10-Continued.

Fruits, Ve	getables, Etc.		Poultry and Eggs.	
	Total		Dosen.	Value.
Green-	Production. Pounds.	Value.	Chickens 1,500	\$7,000
Apples		\$4.500	Ducks 250	1,500
Cherries	50,000	3,500	Geese	600
Figs	4,000	160	Turkeys 300	4,000
Pears	2 160 000	64.800	1	
Peaches		35,000	Total value	\$13,100
Plums		6,400	Forest Products.	
Prunes		5.200		
		0,200	Amount.	Value.
Totals	4.914.000	\$119,560	Area of timber lands	
			(acres) 150,000	\$1,500,000
Dried—	Pounds.	Value.	Sawmills (number) 7	90,000
Grapes	600,000		Charcoal (sacks) 1,000	600
Peaches	20,000	\$1,200	Fuel, wood (cords) 9,000	19,000
Prunes	40,000	1,500	Lumber (feet)10,000,000 Piles 1,500	200,000
Totals	660,000	20 500	Piles	8,000
Totals	000,000	\$2,7 00	Shingles (thousand) 300	6,000
			Diffigures (thousand)	. 600
Live Sto	ck Industry.		Total value	\$1 824 200
	Number.	Value.	Power used for mills and mar	
Cattle-Beef	3,500	\$100,000	in county—Steam (number) 91	luiactories
Stock	11.000	160,000	in county—Steam (number), 21 (number), 6; water (number), 2	erectrican
Dairy Cows-Grade	1 4.500	100,000	(number), o, water (number), 20	o.
Thoroughbred-	•	•	Manufactories.	
Thoroughbred— Herefords	100	4.000	Manufactories.	of Walna of
Thoroughbred— Herefords Holsteins		4,000 5,500	Number	of Value of
Herefords Holsteins Calves	150 4,000		Number No. Employee	s. Products.
Herefords Holsteins Calves Swine	150 4,000 1,200	5,500	Wood boxes 3 75 Carriages and	\$150,000
Herefords Holsteins Calves Swine Horses—Thoroughby	150 4,000 1,200 red 100	5,500 40,000	Wood boxes 3 75 Carriages and	\$150,000
Herefords Holsteins Calves Swine Horses—Thoroughby Standard-bred	150 4,000 1,200 red 100 500	5,500 40,000 8,500	Wood boxes 3 75 Carriages and wagons 2 5	\$150,000 12,000
Herefords	150 4,000 1,200 red 100 500 1,500	5,500 40,000 8,500 20,000 70,000 80,000	Wood boxes 3 75 Carriages and wagons 2 5 Cigars 4 10 Foundries and iron	\$150,000
Herefords Holsteins Calves Swine Horses—Thoroughb Standard-bred Common	150 4,000 1,200 red 100 500 1,500	5,500 40,000 8,500 20,000 70,000 80,000 9,500	Number No. Employee	\$150,000 12,000
Herefords Holsteins Calves Swine Horses—Thoroughb Standard-bred Common Colts Jacks and jennies	150 4,000 1,200 ed 100 500 1,500 700 10	5,500 40,000 8,500 20,000 70,000 80,000 9,500 1,000	Number No. Employee	\$150,000 12,000 14,500 15,000
Herefords Holsteins Calves Swine Horses—Thoroughbi Standard-bred Common Colts Jacks and jennies Mules	150 4,000 1,200 ed 100 500 1,500 700 10 200	5,500 40,000 8,500 20,000 70,000 80,009 9,500 1,000 20,000	Number No. Number No. Sampleyee	\$150,000 12,000 14,500 15,000 7,500
Herefords Holsteins Calves Swine Horses—Thoroughbi Standard-bred Common Colts Jacks and jennies Mules Sheep	4,000	5,500 40,000 8,500 20,000 70,000 80,009 9,500 1,000 20,000 9,000	Wood boxes No. Employee Wood boxes 3 75 Carriages and 2 5 Cigars 4 10 Foundries and iron works 2 5 Meat products— Hides Lard	\$150,000 12,000 14,500 15,000 7,500 5,000
Herefords Holsteins Calves Swine Horses—Thoroughbi Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs	150 4,000 1,200 500 500 1,500 10 200 3,000 1,500	5,500 40,000 8,500 20,000 70,000 80,009 9,500 1,000 20,000 9,000 3,500	Number No. Number No. Section No. Se	12,000 14,500 15,000 15,000 7,500 5,000 4,500
Herefords Holsteins Calves Swine Horses—Thoroughbi Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats	150 4,000 1,200 red 100 1,500 1,500 200 3,000 1,500 1,600	5,500 40,000 8,500 20,000 70,000 80,009 9,500 1,000 20,000 9,000 3,500 3,000	Wood boxes No. Employee Wood boxes 3 75 Carriages and 2 5 Cigars 4 10 Foundries and iron works 2 5 Meat products— Hides Lard	\$150,000 12,000 14,500 15,000 7,500 5,000
Herefords Holsteins Calves Swine Horses—Thoroughbi Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs	150 4,000 1,200 red 100 1,500 1,500 200 3,000 1,500 1,600	5,500 40,000 8,500 20,000 70,000 80,009 9,500 1,000 20,000 9,000 3,500	Number No. Number No. Sampleyee	12,000 14,500 15,000 15,000 7,500 5,000 4,500 25,000
Herefords Holsteins Calves Swine Horses—Thoroughbi Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats	150 4,000 1,200 1,200 100 1,500 1,500 100 200 3,000 1,500 1,600 2,000	5,500 40,000 8,500 70,000 80,000 9,500 1,000 20,000 3,500 3,000 2,000	Number No. Number No. 2	\$150,000 12,000 14,500 15,000 7,500 5,000 4,500 25,000 e quarries,
Herefords Holsteins Calves Swine Horses—Thoroughbi Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats	150 4,000 1,200 1,200 100 1,500 1,500 100 200 3,000 1,500 1,600 2,000	5,500 40,000 8,500 20,000 70,000 80,009 9,500 1,000 20,000 9,000 3,500 3,000	Number No. Number No. 2	\$150,000 12,000 14,500 15,000 7,500 5,000 4,500 25,000 e quarries,
Herefords Holsteins Calves Swine Horses—Thoroughby Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Total stock Wool (pounds)	150 4,000 1,200 1,200 1,500 1,500 1,500 1,500 1,500 1,500 200 1,500 2,000 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500	5,500 40,000 8,500 70,000 80,000 9,500 1,000 20,000 3,500 3,000 2,000	Wood boxes No. Employee Wood boxes No. Employee Wagons Solve No. Employee Wagons Solve No. Employee Wagons Solve No. Employee Works Solve No. Empl	\$150,000 12,000 14,500 15,000 7,500 5,000 4,500 25,000 e quarries,
Herefords Holsteins Calves Swine Horses—Thoroughbi Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Total stock	150 4,000 1,200 1,200 1,500 1,500 1,500 1,500 1,500 1,500 200 1,500 2,000 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500	5,500 40,000 8,500 20,000 70,000 80,009 9,500 20,000 9,000 3,500 3,000 2,000	Number No. Number No. 2	\$150,000 12,000 14,500 15,000 7,500 4,500 25,000 e quarries,
Herefords Holsteins Calves Swine Horses—Thoroughby Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Total stock Wool (pounds)	150 4,000 1,200 1,200 1,500 1,500 1,500 1,500 1,500 1,500 200 1,500 2,000 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500	5,500 40,000 8,500 20,000 80,009 9,500 1,000 20,000 3,500 3,500 2,000	Wood boxes No. Employed Wood boxes 3 Carriages and wagons 2 5 Cigars 4 10 Foundries and iron 2 5 Meat products— Hides 12 Lard 17 Tallow 11 This county has four granite four marble quarries, two sands ries, and one big slate quarry. Manufactured Output.	\$150,000 12,000 14,500 15,000 7,500 5,000 4,500 25,000 e quarries,
Herefords Holsteins Calves Swine Horses—Thoroughbi Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Total stock Wool (pounds) Mohair (pounds)	150 4,000 1,200 1,200 1,200 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,600 2,000 35,560 7,000 2,000	5,500 40,000 8,500 20,000 80,009 9,500 1,000 20,000 3,500 3,500 2,000	Wood boxes No. Employee Wood boxes No. Employee Carriages and Wagons 2 5 Cigars 4 10 Foundries and iron Works 2 5 Meat products— Hides 12 Hallow 2 10 This county has four granite four marble quarries, two sands ries, and one big slate quarry. Manufactured Output. Cigars (thousand)	\$150,000 12,000 14,500 15,000 7,500 4,500 25,000 e quarries,
Herefords Holsteins Calves Swine Horses—Thoroughbi Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Total stock Wool (pounds) Mohair (pounds)	150 4,000 1,200 1,200 1,500 1,500 1,500 1,500 1,500 1,500 200 1,500 2,000 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500	\$5,500 40,000 8,500 20,000 80,009 9,500 1,000 20,000 3,500 2,000 2,000 \$636,000 1,600	Wood boxes	\$150,000 12,000 14,500 15,000 7,500 5,000 4,500 25,000 e quarries, tone quar-
Herefords Holsteins Calves Swine Horses—Thoroughby Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Total stock Wool (pounds) Mohair (pounds)	150 4,000 1,200 1,200 1,200 1,500 1,500 1,500 1,500 1,500 200 1,500 2,000 2,000 35,560 7,000 2,000 Duss Products.	5,500 40,000 8,500 20,000 80,009 9,500 1,000 20,000 3,500 2,000 2,000 1,600 1,600	Wood boxes No. Employee Wood boxes No. Employee Wagnas Solution No. Employee Wagnas Solution No. Employee Wagnas Solution No. Solution	# Products. \$150,000 12,000 14,500 15,000 7,500 4,500 25,000 e quarries, tone quar-
Herefords Holsteins Calves Swine Horses—Thoroughbi Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Total stock Wool (pounds) Mohair (pounds)	150 4,000 1,200 1,200 1,200 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 2,000 35,560 7,000 2,000 Dus Products.	5,500 40,000 8,500 20,000 70,000 80,000 9,500 20,000 3,500 3,500 3,500 2,000 1,600 1,600 4000 Value.	Wood boxes No. Employee Wood boxes No. Employee Wagnas Souriages and wagons 2 5 Cigars 4 10 Foundries and iron works 2 5 Meat products— Hides Lard Tallow Tallow 10 This county has four granite four marble quarries, two sands ries, and one big slate quarry. Manufactured Output. Cigars (thousand) Lime (barrels) Hides (pounds)	\$150,000 12,000 14,500 15,000 7,500 5,000 4,500 25,000 e quarries, tone quar-

FRESNO COUNTY.

Including vineyards, Fresno is the greatest fruit and wine producer in the State of California. Of the fifty-eight counties in the State, the first twenty-seven were organized on February 18, 1850, and six years later Fresno County was formed on April 19, 1856. It is situated in the exact center of the State, and in the middle of the fertile San Joaquin Valley. There are only four counties which exceed Fresno in size—San Bernardino, Inyo, Kern, and Riverside, in the order named. When Fresno was first formed it was considerably larger, but on the 11th day of March, 1893, a large slice, consisting of 2,140 square miles was carved out of the northern part of the county, and formed into Madera County; and still more recently, Fresno County was again mutilated by a little over 117 square miles of the southeast portion being transferred to Kings County by an act of the Legislature approved April 12, 1909.

Before being partitioned, Fresno County comprised 7,746 square miles, but the land area now amounts to 6,035 square miles, or 3,862,400 acres, and, therefore, still remains the fifth largest county of the fifty-eight in the State, and one of the most productive. It is also the fifth largest in population.

Among the other towns in the county are Coalinga, one of the largest oil-producing districts in the world; Selma, Kingsburg; also, Sanger and Clovis, both having large sawmills and lumber depots; Reedley, on the Kings River, near the foothills; Laton, in the center of a large agricultural and dairying district, and Kerman, the latest town in the county.

The word "Fresno," in Spanish, signifies ash tree, and it was because of the abundance of mountain ash in the mountains of this county that it received its name.

TOPOGRAPHY AND SOIL.

Fresno County is naturally subdivided into two portions—plains and mountains. The plains are the bottom of the San Joaquin Valley, extending from the foot of the Coast Range on the west, to the foothills of the Sierra Nevadas on the east. The trough of the valley south of Fresno has an elevation of 180 feet. Fresno City has an elevation of 290 feet, and the valley, at the edge of the foothills, has an elevation of about 500 feet. From the first foothills the rise is rapid, the mountains culminating in peaks rising 10,000 to 12,000 feet high. The country about Fresno is a vast plain intersected by the San Joaquin and Kings rivers and their tributaries. Four natural soil divisions have been recognized—the foothill region, where agriculture was formerly confined to grazing; the plains of the valley, with red soils lying near the hills; the "white ash" soil found further out in the plain, and the bottoms, or alluvial lands, along the Kings River.

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CLIMATE AND RAINFALL.

There is a dry and a wet season; the former from about May to September; and the latter from the middle of October or early part of November. The average rainfall at Fresno is about 10.12 inches annually. The rains, which are at irregular intervals during the winter, seldom last more than two or three days at a time. There are about 275 days of sunshine in the year. The atmosphere during the summer months is dry, and the heat not nearly so oppressive as in the East, and other places where the humidity is great. Sunstroke is unknown.

POPULATION.

Considering that California was only admitted as a State on September 9, 1850, and that Fresno was only organized as a county in 1856, its steady increase in population and prosperity has been wonderful. When we come to consider the results which have been obtained within less than a span of an ordinary lifetime by a mere handful of people, it is simply marvelous. In 1880 the population was 4,605; 1870, 6,336; 1880, 32,026; 1900, 37,862, and, according to the last census, just completed, 75,657.

FARMS AND FARMING.

The county has passed through four stages of development. First came mining in the early days before it was organized as a county, and this period extended to about 1860-64. Secondly, came the stock raising period, which arose upon the gradual disappearance of placer mining, and lasted until 1874, although sheep raising still continued on a large scale; thirdly, about 1868, the farming interest sprang up, although prior to the advent of the railroad in 1870, agriculture amounted to very little. The fourth and most important may be called the viticultural and fruit era, which began to come into prominence early in the eighties, and has now become the leading feature of the county. There is a mistaken impression among many homeseekers that farms and vineyards are all on a large scale, but the days of enormous land grants and ranches are over, and the land is now being rapidly subdivided and settled.

IRRIGATION.

As California holds the first place among all the states in the Union in irrigation, so Fresno is the leading county in the State, both in number and extent of its canals and ditches, having more than double the acreage under irrigation than any other county. In 1880 there were only about 65 miles of main canals in the county, whereas now there are over 450 miles of main canals and thousands of distributing ditches, irrigating some 400,000 acres. Most of the canals are owned by corporations, whose interests are entirely separate and distinct from the ownership of the land irrigated. The remainder are owned by companies, the stock of which is, for the most part, in the hands of The capacity of these canals is 500 cubic feet per the landowners. second. All draw their water from the Kings River. The combined capacity of these canals is 3,500 cubic feet per second. The water is much cheaper than in many other parts of the State, being only 621 cents per acre per annum under the Fresno and Laguna canals, and 75 cents per acre under the Consolidated Canal.

FARM AND FARM PRODUCE-CEREALS.

In the cultivation of cereals, the county has fallen off greatly during the last nine years, especially in wheat and barley. The acreage is reported as follows, but is really much larger (from the assessor's books):

Wheat	8,400	acres.
Barley	7,500	acres.
Alfalfa hay	57,800	acres.
Oats	1,800	acres.
Hay	6,700	acres.

DAIRY PRODUCTS.

During the last ten years the dairy industry has made great progress, except in the manufacture of cheese, which, however, was never produced on a very large scale. In 1898 only 291,754 pounds of butter were produced and 604,861 in 1900, and 4,940,000 in 1910.

VINEYARD AND ORCHARD FRUITS.

Including grapes, Fresno produces more fruit than any other county in the State, and California produces twenty-five per cent of the total value of fruit raised in the United States.

Fresno County holds the first place in the production of grapes, raisins, figs, sweet wines, and brandy, and is one of the leading counties of the State in the production of peaches, apricots, and olives, and the acreage in citrus fruits is spreading. Fresno's output of raisins for 1910 was 33,079 tons.

CITRUS FRUITS.

The shipments of oranges raised in Fresno County during the last four seasons have been, in round numbers, as follows:

·	Oranges,	Lemons,
Season.	cars.	cars.
1905-6	_ 150	15
1906-7	_ 200	15
1907-8	_ 210	20
1908-9	_ 220	12
1909-10 (to December 31st)	_ 175	15

A car load consists of 362 boxes of oranges, and 312 of lemons.

OLIVES AND OLIVE OIL.

Fewer records appear to have been kept regarding this industry than most others. There are, according to the best authorities, about 12,000 to 14,000 acres of olive trees planted in the State, of which almost half are in bearing. Last year about 350,000 gallons of olive oil and 450,000 gallons of pickled, ripe and green, olives were produced in the State. Fresno has a larger acreage in olives than any other county in the San Joaquin Valley. Fresno County produced the following quantities:

•	Pickled olives,	Olive oil,
Year.	gallons.	gallons.
1905	10,000	2.500
1906	5,000	5,000
1907	40,000	14,000
1908		16,000
1909		12,000
1910	43,000	10,000

WINE AND BRANDY.

The production of sweet wine and brandy during the last few years has been as follows (gallons):

	Cali	fornia.	Fresno	County.
Year.	Sweet wine.	Com. brandy.	Wine.	Brandy.
1905		1,200,000		
1906		1,345,000		
1907	_ 16.304.000	1.450.000	6.000.000	1.250,000
1908	14,500,000	1,500,000	6,800,000	1,000,000
1909	16,000,000	1,800,000	7,500,000	1,200,000
1910 (est.)	14,000,000	1,300,000	5,950,000	750,000

Fresno County also produced about 150,000 gallons of dry wine in 1909, and the same in 1910, and about 40,000 gallons of grape juice.

There are twenty-six wineries in Fresno County, including one Japanese winery at Fowler, and twenty-nine distilleries. The proportions of the various kinds of sweet wines produced in Fresno County are approximately as follows:

Port	
Sherry	1.950.000
Angelica	320,000
Muscat	200.000
Tokay	95,000
Malaga	85,000
Total	5.950,000

DRIED AND CANNED FRUITS. (Approximate quantities and average prices.)

DRIED FRUITS.

	1909.	1909.	1910.	Pr	ice.
	Quantity,	Per pound,	Quantity,	Lowest.	Highest.
Fruit.	tons.	cents.	tons.	Cents, p	er pound.
Apricots	_ 750	7 to 8½	1,000	7	10
Figs	_ 2,100	2 to $2rac{3}{4}$	3,000	$2\frac{1}{2}$	41/2
Nectarines	_ 450	$3\frac{1}{2}$ to 5	500 .	4	6
Peaches	_ 8,500	3¾ to 5	7,500	4	$5\frac{1}{2}$
Pears	_ 100	5 to 7	100	6	8
Plums	_ 50	4 to 6	30	5	7
Prunes	_ 750	$1\frac{3}{4}$ to $2\frac{1}{2}$	200	$2\frac{1}{2}$	4 <u>1</u>

GREEN FRUIT-CANNED AND SHIPPED.

Fruit.	Tons.	Lowest and highest price, 1910, per ton.			
Apricots	400	\$20	00	\$30 00	
Peaches—					
Tuscan Clings	1,500	22	50		
Orange Cling	2,700	12	00	20 00	
Phillips Cling		15	00	$25 \ 00$	
Early Crawford					
Early Foster		15	00	20 00	
Muirs, Freestone		15	00	20 00	
Lovells	1,600	15	00	20 00	
Elbertas	1.000	15	00	20 00	
Piums	400	20	00	30 00	

FIGS.

The quantity of figs in Fresno takes the lead, has much improved of late years, and the fruit appears to be growing in favor.

The quantity packed in Fresno in the last six years has been:

Year.					Tons.
1907	 	 	 	 	3,300
1910		 	 	 	3.000



BEES AND HONEY.

In 1899, Fresno produced 567,800 pounds of honey; in 1908, 777,050 pounds; the estimated crop for this season being considerably less.

FISH AND GAME.

The varieties of fish include salmon, black bass, trout, and catfish, all of which are plentiful.

There is an abundance of game, including quail, doves, a large variety of ducks and wild geese, but there is no means at present of ascertaining either the quantity or money value of either fish or game. The sums received for hunting licenses, however, are considerable, in 1908-9 being \$3,657, and in 1909-10, \$4,194.

THE LUMBER INDUSTRY.

The value of this industry to the county is very considerable, varying from sixty to seventy-five million feet, board measure, with an average value of some two million dollars a year. The different varieties are approximately as follows:

Year.	Sugar pine.	White pine.	Fir.	Sequoia.	Total.
1905		6,000,000	30,000,000	15,000,000	60,000,000
1906 1907	9,000,000 10.000,000	6,000,000 5,000,000	30,000,000 35,000,000	$15,000,000 \\ 20,000,000$	60,000,000 70,000,000
1908	9,000,000	4,000,000	35,000,000	10,000,000	58,000,000
1909	11,000,000	6,000,000	30,000,000		47,000,000

Note-Feet, board measure.

The price of lumber was about 10 per cent higher in 1909 than in the previous year.

For the year 1910, the exact figures can not yet be given, but the total lumber cut amounts to between 65,000,000 and 70,000,000 feet, and taking into account the shakes, shingles and trays made at different mills, would bring the total to 75,000,000 feet, which, at a conservative estimate, would be worth about \$1,500,000.

MANUFACTURES OF FRESNO.

The great increase in the manufactures of Frenso is due chiefly to the increase in the canning and preserving of fruits and vegetables, the value of products for which amounted to \$6,942,440, and formed 70.5 per cent of the total value of all the manufacturing industries of the city. Most of the fruit preserving of Fresno is by the drying or evaporating process, and the greatest part is in raisins, in which Fresno leads the world.

NUMBER OF ESTABLISHMENTS.	
1905	84
1900	62
Per cent of increase	_ 35.5
Capital:	
1905	_\$3.501.808
1900	
Per cent of increase	_ 144.0
Wage-earners:	
1905 average number, 1951; wages	_\$1.085.926
1900 average number, 819; wages	_ 395.586
Per cent of increase, 138.2; per cent of increase	_ 174.5
Value of products:	
1905	_\$9.849.001
1900	-2.752.201
Per cent of increase	_ 257.9

There are several foundries, agricultural and implement works, iron works, macaroni and soap factories, and many others, which have come into existence or been greatly extended during the last two years.

MINERALS.

Fresno county is rich in minerals, but as yet, little has been done to develop what some day will be a great and prosperous industry. Gold, silver, copper, antimony, iron, bismuth, chrome, magnesite, building stone, and mineral waters are among the minerals awaiting utilization. The copper deposits that have so far been in any way worked are all near the northern side of the county.

VALUE OF MINERAL PRODUCTS IN THE LAST FIVE YEARS.

VALUE OF	MINERAL PI	BODUCTS IN T	THE LAST	FIVE	S YEARS.		
Substance.	1905.	1906.	1907.		1908.		1909.
Asphalt					\$5,0		\$4,400
Brick			\$57,3		106,9	960	49,375
Copper		88,000	50,0			==	111,341
Gold						054	14 400
Granite				500 500	16,9	900	14,400 14,400
			10,	300	10,	700	8,500
MagnesiteSilver	9.187	83		26		11	0,000
Petroleum	2.400,000	1.974.470	3,620,		5.898.9		9,243,971
Potter's clay					26,0		
Macadam, tons							4 5,375
Totals	\$2,734,164	\$2,135,046	\$3,740,	397	\$6,055,	389	\$9,445,978
•				Qu	antity.		
Substance		1	L907.	1	.908.		1909.
Asphaltum (tons)					500		400
Brick (millions)					13,220		7,950
Clay (tons)					9,000		
Copper (pounds)			250,000		91 054	•	876,837
Gold (value)			\$2,041		\$1,054		
Magnesite (tons)			050.000	10.5	707 000	4 2	850
Petroleum (barrels))	9,	050,300	10,7	25,389 \$11	10,	406,619
Silver (value) Granite, (cubic feet			0.200		16,900		18,000
Macadam (value)					10,500	9	\$14,000
The figures for 19							411,000

The figures for 1910 are not yet complete

COALINGA OILFIELDS.

In the last ten years the production of petroleum in Fresno County has developed from a small beginning into one of its most important industries.

In 1907 only 70,140 barrels were produced. The production now is 15,406,619 barrels.

STATISTICS OF FRESNO COUNTY, 1909-10.

General Statistics.	General Statistics—Continued.	
Area 6.035 square miles, or 3,862,400 a	cres Number of miles of public roads 2	38c
	Road levy per \$100, 1910	38C
	3,290 Value of county buildings \$1,260	,000
	3,290 Value of county buildings \$1,260 4,926 Irrigating ditches—miles	450
Value of country real estate \$28,86	0,648 Railroads, steam — miles, 269;	
	1,633 assessed value \$6,305	,702
Of city and town lots \$7,91	9,333 Railroads, electric — assessed	
Of improvements thereon \$6,37	2,437 value \$137	,375
Of personal property \$8,78	1,040 Electric power plants — 1; as-	
Total value of all property \$65,26	3,510 sessed value \$146	,795
Expended on roads, last fiscal	Electric power lines — miles,	
vear \$24	5.341 140; assessed value \$60	,271
Expended for bridges, last fis-	Number of acres irrigated—	
	9,171 upwards of 400),000

STATISTICS OF FRESNO COUNTY, 1909-10-Continued.

Cereal Products and Hay.		Wines, Brand	ies, Etc.	
Wheat	Acres. 8,400 7,500 1,800	Dry wines		Callons. 150,000 5,950,000 750,000
Total cèreals	17,700	Grape juice		40,000
Alfalfa hay	57,800 6,700	Number of wineries, in anese at Fowler, 26; number of breweries	nber of di	
Total hay	64,500	20, mamber of broweries	, 4.	
Number of Fruit Trees and V	Vines.	Live Stock I	ndustry.	•
Bearing. Non-bearing	r. Total.		Number.	Value,
Apple 20,000 4,800	24.800	Cattle-Beef	2,370	\$71,100
Apricot 145,600 11,300	656,900	Stock	22,600	271,200
Fig 126,000 23,000	149,000	Dairy cows	32,860	657,200
Lemon 21,500 9,000	30,500	Thoroughbred—		
Nectarine 30,000 660	30,600 30,660	Thoroughbred—	218	10.900
Nectarine 30,000 660 Olive 42,500 5,300	30,660 47,800	Angus	218 9.210	10,900 46,050
Nectarine 30,000 660 Olive 42,500 5,300 Orange 89,400 10,300	30,660 47,800 99,700	Angus	9,210	46,050
Nectarine 30,000 660 Olive 42,500 5,300 Orange 89,400 10,300 Peach 3,270,000 760,000	30,660 47,800 99,700 4,030,000	Angus Calves Swine	9,210 7,482	46,050 29,930
Nectarine 30,000 660 Olive 42,500 5,300 Orange 89,400 10,300 Peach 3,270,000 760,000 Plum 10,600 2,360	30,660 47,800 99,700 4,030,000 12,960	Angus	9,210 7,482 127	46,050 29,930 38,400
Nectarine 30,000 660 Olive 42,500 5,300 Orange 89,400 10,300 Peach 3,270,000 760,000	30,660 47,800 99,700 4,030,000	Angus	9,210 7,482 127 14,976	46,050 29,930 38,400 599,040
Nectarine 30,000 660 Olive 42,500 5,300 Orange 89,400 10,300 Peach 3,270,000 760,000 Plum 10,600 2,360	30,660 47,800 99,700 4,030,000 12,960	Angus	9,210 7,482 127	46,050 29,930 38,400
Nectarine 30,000 660 Olive 42,500 5,300 Orange 89,400 10,300 Peach 3,270,000 760,000 Plum 10,600 2,360 Prune 83,000 5,600	30,660 47,800 99,700 4,030,000 12,960 88,600	Angus Calves Swine Horses—Thoroughbred Common Colts Jacks and jennies	9,210 7,482 127 14,976 1,830 60	46,050 29,930 38,400 599,040 36,600 1,200

GLENN COUNTY.

Glenn County, originally a part of Colusa County, was incorporated May 11, 1891. It lies near the center of the Sacramento Valley, extending from the summit of the Coast Range across the Sacramento eastward, containing 1,550 square miles, one third being mountainous, but affording good summer pasturage for stock. About the same area is in the foothills with many fertile ranches and the remaining third practically a level valley floor of wonderfully fertile soil which has for the past forty years been continuously cropped to grain and still continues to produce good crops.

The average temperature for the year is 64° Fahrenheit. The coldest is 25° above zero, and the highest 115°. The maximum temperatures are reached in July and August and are of short duration, generally lasting from one to three days, the usual maximum being not greater than 110°. The relative humidity, however, is low, greatly reducing the sensible temperature. The nights are always cool, there being a daily range of temperature during the hot months of from 25° to 30°. The rainfall averages about 17 inches annually, and comes between the months of October and April. The climate is particularly suited to the growth of fruits of all kinds, and with the abundant rich feed makes

possible an even unchecked growth of live stock.

The United States Reclamation Service has installed a system to irrigate 14,000 acres of the fertile lands about the town of Orland. This project is designed as a model irrigation system, and was undertaken by the reclamation service to demonstrate the benefits of irrigation under perfect conditions of soil and climate. The works consist of an impounding dam, situated at East Park in Colusa County, a diversion dam at the Buttes in Tehama County, and 99 miles of canals and main laterals, about 100 miles of small field ditches, all constructed by the United States under the supervision of its own engineers; the cost of the works is charged against the land, to be repaid in ten annual installments without interest. The impounding dam is now completed and awaits the winter flood water to fill the reservoir, which has a capacity of 45,000-acre feet of water, which will be released during the dry months to supplement the natural stream flow of Stony Creek. water is carried 40 miles to the diversion dam at a point where the creek debouches upon the plains. Here the water is turned through the headgates into main canals. The diversion dam is fifty per cent complete, the ditches and canals eighty per cent complete, and work is being pushed so as to furnish water for the season of 1911. By the terms of the contracts the Government required of the owners before undertaking the project that this land must be sold in tracts of 40 acres or less. The approximate cost of \$650,000 will be distributed over ten years and charged to at least 14,000 acres; the annual charge for construction will be less than \$5.00 per acre. The dam and system are now so nearly complete that many acres will be added to the already profitable groves of oranges and lemons, and fields of alfalfa.

The United States Soil Survey describes the soil as "deep, friable and



productive and adapted to a wide range of fruit and field products and especially those produced under irrigation and intensive farming." With a normal rainfall one crop of grain or three crops of alfalfa are produced—with irrigation alfalfa is harvested from four to six times, yielding from six to ten tons to the acre. The yield of the crops is also correspondingly increased. Owing to the extensive system of grain farming, and the very limited number of small irrigated farms, the average farm in Glenn County up to the past year was over 1,000 acres, necessitating a rather sparse population. The population in 1900 was but 5,150, and while the yearly increase has been good, only during the past year has the real awakening begun.

The great irrigation project of the Sacramento Valley Irrigation Company, with headquarters at Willows, together with that of the United States Government at Orland, has revolutionized things. Their lands are now being sold in 20, 40, and 80 acre lots, and a vast number of

settlers are coming in daily.

Willows, the county seat, is 150 miles north of San Francisco on the main line of the Southern Pacific and 80 miles from Sacramento, the State capital. The population of Willows is over 3,400, the increase in the past year being almost 100 per cent. Always an important commercial point for what has in the past been one of the great grain producing sections of the State, not until the Sacramento Valley Irrigation Company established here their headquarters were the great possibilities really fully appreciated. There is great activity in building both residences and business houses, and the opportunity for profitable investment is magnificent. Six religious denominations are represented in Willows, the Baptist, Episcopal, Methodist, Catholic, Christian, and Presbyterian. Educational facilities are the best there are, being a grammar school and a high school. Present conditions, however, point to additional schools in another year.

Orland is 15 miles north of Willows on the main line of the Southern Pacific. It is a thrifty, prosperous town of about 1,200 inhabitants. The United States Government is developing an irrigation project here of about 14,000 acres. Here is also located an experimental station, consisting of about 10 acres. Considerable activity exists in the sale of farm lands and the town is growing fast. Orland has three churches, the Methodist, Baptist, and Catholic, a high school and grammar school, and all other conveniences for an up-to-date growing community.

Hamilton City came into existence in 1905 with the building a \$1,000,000 sugar beet factory. It is located on a branch line of the Southern Pacific and Northern Electric railroads. It is quite a flourishing and progressive town of about 800 inhabitants, having churches, school, electric lights and telephone, etc. The sugar beet factory has a capacity of 700 tons per day, working 400 men. The other railroad towns are Germantown and Fruto.

Realizing it is equally as important to take care of the waste water as is the supplying of it, the irrigation company as they construct their canals and laterals are building a great drainage system. All checks and gates in the canals and laterals are of concrete construction, water being delivered to the highest boundary of each 40-acre tract. With roadways, too, around each 160 acres. There is now ready for water over 1,500 acres and it is their intention to have fully 20,000 additional ready by May, 1911.

The Orland project, while the smallest yet undertaken by the United States Reclamation Service, is complete in itself and will irrigate about 15,000 acres. It is regarded now as one of the units in a general system, and will likely be materially enlarged at no distant day.

The county roads are excellent. They are graded, graveled, and kept in splendid condition; the gravel in all parts of the county being particu-

larly adapted to road making.

Great impetus has been given the dairy industry, and with the alfalfa now being planted and the number of pure bred stock being bought, together with the many natural advantages, Glenn County will soon take her place as one of the great dairy centers of the State. It also means further interest in the way of hogs and chickens. The latter, however, is now receiving considerable individual attention in the way of the establishment of several large poultry farms. With the planting, too, of large acreages to alfalfa the bee industry is also beginning to attract considerable attention.

Professor Elwood Mead of the United States Experiment Station at one time and in charge of irrigation investigations, now the head of the department of irrigation of Australia, said: "Within a radius of five miles in the Sacramento Valley I saw every product of the temperate and semitropical zones which I could call to mind. Apples and oranges grew side by side, as did oak and almond and walnut trees. There were olives from the south and cherries from the north. A date palm seemed equally at home with an alfalfa meadow, figs and Tokay grapes were apparently as much in their element as the fields of wheat and barley or the rows of Indian corn, some of the stock of which measured 15 feet in height. All of these things could have been grown on a single acre and doubtless have been."

Every yard has its orange and lemon trees, some being cared for and irrigated, the most of them, though, not; still all do well and produce delicious fruit. At Orland there are several orange groves from six to ten years old, and all doing exceedingly well. Peaches, apricots, cherries, pears, prunes, olives, figs, grape, and nuts of all kinds yield in the greatest abundance, whereas in the foothills can be found some of the best apples that can be grown anywhere. Now that irrigation is at hand, large acreages will also be planted to orchard.

Soil and climatic conditions in Glenn County are particularly well adapted to the culture of grapes, and the United States Department of Agriculture has recently arranged to establish an experimental station near Willows where extensive experimental work in grape culture will

be carried on.

This is one of the most promising industries of the county. The presence of a great sugar factory, a sure crop, a live market, and a cash return make it truly an attractive proposition. The beet reaches its highest perfection here and as prices are highest when the sugar content is greatest, the industry here nets splendid returns per acre. The yield is from 10 to 25 tons per acre with the sugar content as high as 27 per cent.

A Nevada corporation purchased several sections between Willows and Germantown in the spring of 1908 and planted 60,000 eucalyptus trees, which are now from six to fifteen feet high. Notwithstanding the lack of irrigation and the small amount of rainfall the past two seasons,



the loss has only been two per cent. They are growing vigorously and

show great possibilities.

The Sacramento Valley Irrigation Company, coöperating with the United States Government, planted a three-acre patch to forty different varieties of rice about one mile south of Willows the past spring. The greater portion has already been harvested and is of exceptional quality, all, too, yielding abundantly. The government experts pronounce it equal to any that is grown in the great rice states. The Sacramento Valley Irrigation Company will continue the experiment on a larger scale the coming year. Mr. Z. S. Spaulding, too, a large land owner is arranging to seed an acreage of about 150 acres and to irrigate with pumps. Every indication points to a great future for this industry.

Experiments have also been made with flax, sufficient to demonstrate the fact that it can be made a profitable crop. Cotton, too, shows it can be grown to advantage. In fact, there are few of the necessities or luxuries that grow out of the ground that can not be successfully

produced in Glenn County.

Sandstone, cement, manganese, and copper possibilities still lie unworked only waiting capital and intelligent effort to make them exceed-

ingly profitable.

Glenn County is the hunter's paradise. Black bass, striped bass, salmon, perch, catfish, trout, and many other varieties abound in the Sacramento River, and the mountain streams are full of speckled trout, while the heavy growth of brush along the river banks and in the foothills is full of quail, deer, squirrels, and other game, whereas from the middle of November to the first of March, when the wild geese and ducks come into winter quarters, good sport is enjoyed, the hunters killing them by the hundreds.

Glenn County is indeed forging ahead and offers wonderful possibilities in every line for the homeseeker or investor.

STATISTICS OF GLENN COUNTY, 1909-10.

General Statistics.		Number of	Fruit T	rees and Vi	nes.
Area 1,545.09 square miles, or 989			Bearing.	Non-bearing.	Total.
Number of farms	1,223	Apple	3,350	755	4.105
Number of acres assessed	687,808	Apricot	4,475	310	4,785
Value of country real estate	\$9,457,409 \$570,810	Cherry	385	70	455
Of improvements thereon Of city and town lots	\$548,791	Fig	2,780	1,140	4,920
Of improvements thereon	\$333,360	Lemon	4.025	480	4,505
Of personal property	\$1,755,947	Nectarine	48	40	88
Total value of all property		Olive	1.715	410	2,125
Expended on roads, last fiscal		Orange	6.890	1.975	8,865
year	\$70,707	Peach	5,880	910	6,790
Expended for bridges, last fis-	***		2,815	825	3,640
cal year	\$92,838	Pear	865	545	1,410
Number of miles of public roads	\$140,000	Plum			7.396
Value of county buildings Irrigating ditches — miles, 182;	\$140,000	Prune	6,985	411	
cost	\$750,000	Quince	68	*******	68
Drainage ditches-miles, nearly	136	Total fruit	40,281	7.871	49,152
Railroads, steam—miles, 55.78;		10tai muit	10,201	1,011	10,102
assessed value	\$1,378,665	Almond	7.370	650	8,020
Railroads, electric — miles, 4.9;	000 011	Chestnut	10		10
assessed value	\$23,211	Pecan	34	10	44
Electric power lines—miles 63; assessed value	\$52,940	Walnut	3,135	710	3,845
Number of acres irrigated	6,580	-			
· ·	0,000	Total nut	10,549	1,370	11,919
Dairy Industry.			05.050	0.700	00 050
No. Production.		Grapevines	35,350		38,050
Creameries 2 182,333	\$85,629	Berries, acres.	42	15	15

STATISTICS OF GLENN COUNTY, 1909-10-Continued.

Fruits,	Vegetables, Etc.		Live Stock Industry.
	Total		Number. Value.
~	Production.		Cattle-Stock 10,654 \$159,810
Green-	Pounds.	Value.	Dairy Cows-Graded 1,642 41,050
Apples	160,300	\$3,200	Thoroughbred-
Apricots		1,574	Herefords 5 1,000
Blackberries		875	Holsteins 12 1.800
Beans		1,476	Jersey 44 4,400
Beets	2,150	65	Calves 2.471 24.710
Cabbage	8,500	170	Swine 9,081 49,405
Cauliflower		451	Horses-Thoroughbred 3 3,000
Corn	148,250	1,482	Common 9.465 191.950
		275	Colts 1,011 30.330
Figs		1,683	Jacks and Jennies 4 1.200
Grapes		1,920	Mules 2,487 248,700
Lemons (boxes)	640	1,920	Sheep 91,380 274,140
Loganberries	48,200	1,446	Angora goats 4,855 9,710
Onions	147,150	1,471	
Oranges (boxes)		9,050	Total stock 126,134 \$973,505
Olives		346	, , , , , , , , , , , , , , , , , , , ,
Pears		2,142	Wool (pounds) 448,300 67,245
Peaches		2,246	Mohair (pounds) 24,275 6,075
Peas	5,200	248	
Persimmons	2,840	286	Poultry and Eggs.
Plums		214	,
Irish potatoes	485,950	4,860	Dozen. Value.
Sweet potatoes .		1,044	Chickens 5,164 \$20,656
Prunes		156	Ducks 209 1,254
Raspberries		390	Geese
Strawberries		810	Turkeys 638 12,072
Tomatoes	508,700	5,087	Eggs 112,300 2,246
Totals	2.570.500	\$49,943	Total value \$36.444
Dried	Pounds.	Value.	, , , , , , , , , , , , , , , , , , , ,
Almonds	80,310	\$9,637	
Figs		62	Forest Products.
Prunes		1.528	Amount. Value.
			Area of timber lands
Totals	157,960	\$11,227	(acres) 100,390 \$501,950
		,,	Sawmills (number) 1 4,000
Fit	sh Industry.		Fuel, wood (cords) 2,790 16,740
	Pounds.	Value.	Lumber (feet) 840,000 16,800
Salmon		\$3,852	
Other kinds	11,200	896	Total value \$539,490
Totals	59,350	\$4.748	Miscellaneous Products.
_	·		Pounds. Value.
Cereal F	Products and Hay		Bees (hives)—No. 482 \$1,446
Tons	of 2,000 pounds.		Broomcorn 208,800 10,400
Wheat	Acres. Bushels.	Value.	
Wheat	17,695 317,510	\$266,708	
Barley	55,680 1,169,280	549,551	Sugar beets (tons) 20,005 100,025
Oats	755 18,875	12,202	
Rye	40 760	456	Manufactories.
Corn	560 21,280	13,300	In Glenn County there are one steam-
			power plant and four electrical-power
Total cereals	74,730 1,602,435	\$842,217	plants. It has one brickyard, one cement
	Acres. Tons.	Value.	product factory, two cigar factories, one
Alfalfa hay	4,535 13,405	\$81,630	sewer pipe factory, two planing mills, and
Grain hay		122,950	one beet sugar factory. It turns out 119,000
			pounds of crackers, and 85,000 pounds of
Total hay	17,385 31,255	\$204,580	

HUMBOLDT COUNTY.

Humboldt County, a veritable empire in itself, has long laid virtually undisturbed. in the northwestern part of California. There is no section in the Golden State to-day where natural resources give so great an opportunity for development. But having no rail connection with the outside world, the stream of homeseekers pouring into the west has never been directed toward this region, though it presents as great attractions as many other parts of the Pacific coast. This, though, will soon be a thing of the past—the Northwestern Pacific Railroad Company is rapidly laying the rails that will connect this county with the rest of the State, and by this time next year the outside world will commence to learn that there is such a place in California as Humboldt County. Having increased from 27,104 to 33,857 in the last ten years under our present conditions, who can foretell what our population will be at the end of the next ten years, with railroad connection with the rest of the country?

While the greater portion of the county's surface is hilly, there is considerable level land around Humboldt Bay and along the numerous rivers which flow down the mountains to the ocean. All of this land, both hill and dale, is very fertile and productive, and is principally utilized for farming, dairying, and fruit raising. While fruit raising, at this time, is in its infancy, with a railroad outlet in a short time it will be its chief industry. The fact has been well established that here can be raised as good fruit of all kinds as in the State. Fruit grown here is nearly altogether free from insect pests; the codling moth, which is so ruinous to the apple business in a great many localities, is wholly unknown here.

Considerable over one hundred thousand boxes of choice apples are annually shipped out of the county. A great variety of berries grow in profusion in all parts where cultivated, and immense quantities of wild blackberries, huckleberries, and strawberries grow in almost every section of the county.

Humboldt County, while not particularly noted as an agricultural county, yields perhaps the largest returns per acre of vegetables, hay and grains, of any locality on the Pacific coast. No year has yet been seen when this county has had too little rainfall for its needs or enough to damage its crops. The average rainfall being 47.55 inches per annum.

There are abundant streams and springs throughout the county, which furnish plenty of pure water to its inhabitants the year around and render irrigation absolutely unnecessary.

Lumbering is the chief industry of the county, the exports of our lumber and shingle mills, and sash and door factories aggregating 250,000,000 feet yearly besides that which is used at home, which is considerable. There are over 5,000,000 acres of heavily timbered land on which there is estimated to be over 50,000,000 feet.

Stock raising is carried on extensively throughout the county, and

is one of its most important industries. The exports of this business bringing in about \$500,000 annually.

The growing of wool is also an important industry, exports being

nearly 600,000 pounds per year.

Gold mining is carried on to some extent along the Klamath and Trinity rivers, the annual output being over \$100,000.

Good building stone, such as granite and sandstone, is found in many localities. All the granite used in our court house being a home product.

Among other industrial pursuits carried on within the county are shipbuilding, salmon fishing, leather making and the gathering of

tanbark.

There are three daily, seven weekly, and one semi-weekly newspapers published in the county.

We have 122 public schools and employ about 200 teachers. Of the above four are high schools. There are about sixty churches in the county.

Two notable buildings have been finished within the last year at Eureka, namely a Federal building, just completed at a cost of \$118,000 and the most beautiful "Elk's Home" in the State.

STATISTICS OF HUMBOLDT COUNTY, 1909-10.

General Statistics.	Fruits, Vegetables, Etc.
Area 3,507 square miles, or 2,244,480 acres	Total
Number of acres assessed 1.600.50	2 Production.
Value of country real estate \$17,053,21	0 Green— Pounds. Value.
Of improvements thereon \$1,250,66	
Of city and town lots \$4,693,42	5 Apricots 4,000 80
Of improvements thereon \$2,898,12	
Of personal property \$3,253,75	
Total value of all property \$29,149,17	
Expended for bridges, last fis- cal year	Cabbage 220,000 3,300
cal year	1,200
Road levy per \$100, 1910 66	
Value of county buildings \$375,00	2,000 2,000 2,000
Railroads, steam — miles, 145;	Cherries 4,000 160 2,700 2,700
assessed value \$1,149,17	0 Gooseberries 4,000 200
Railroads, electric — miles, 12;	Grance 4.400 SE
_assessed value \$65,45	Loganberries 8.000 480
Electric power plants — 2; as-	0-1
sessed value \$156,51	Pears 68,000 1,360
Electric power lines—miles, 92; assessed value	
Pacific Telegraph & Telephone	Peas 40,000 1,200
Company's property \$36,67	
Western Union's property \$4,21	
The state of the s	Prunes 640,000 4,800
Number of Fruit Trees and Vines.	Quinces 6,500 195
Bearing. Non-bearing. Total.	Raspberries 7,000 560
Apple 115,000 20,000 135,00	0 Strawberries 80,000 8,000
	Tomatoes 350,000 7.100
Cherry 2,000 1,000 3,00	00
	5 Totals20,514,900 \$290,660
Lemon 3	3
Peach 2,000 500 2,50	
Pear 1,800 400 2,20	
Plum 500 100 60	Penns 9,000 270
Prune 15,000 500 15,50 Quince 300 200 50	Prunes 50,000 1,500
Quince 300 200 50	Walnuts 3,000 450
Total fruit 136,678 22,700 159,37	8 Totals 92,000 \$4,720
Chestnut 15 1	5
Walnut 420 42	Wines, Brandies, Etc.
	_ Gallons. Value.
Total nut 535 53	
	Cider 43,275 \$6,491
Grapevines 50	
Berries, acres	0 Number of breweries, 1.

STATISTICS OF HUMBOLDT COUNTY, 1909-10-Continued.

Cereal Products and Hay.		Live Stock In	ndustry.	
Tons of 2,000 pounds.			Number.	Value.
Acres. Bushels.	Value.	Cattle—Beef	3,590	\$125,650
Wheat 165 4,950	\$4,950	Stock	22,145	332,175
Barley 615 24,600	14,760	Dairy Cows-Graded	16.681	667,240
Oats 1.840 64,400	30,912	Thoroughbred-	10,001	001,240
Oats 1,010 01,100	50,515	Holsteins	90	9,000
Total cereals 2,620 93,950	\$50,622		360	3 6 ,000
10tai cereais 2,020 30,300	400,022	Jersey	10.135	101,350
Acres. Tons.	Value.	Calves		
Alfalfa hay 212 1,272	\$19,080	Swine	6,145	61,450
Grain hay 5,220 10,440	125,280	Horses—Thoroughbred	5	5,000
Grass hay 6,370	63,700	Standard-bred	420	42,000
Grass hay vjete	00,.00	Common	5,840	358,400
Fish Industry.		Colts	820	24,600
Pounds.	Value.	Mules	345	13,800
Salmon 2,340,000	\$107,090	Sheep	66,500	199,500
Other kinds 101,380	10,138	Lambs	25,200	50,400
Other kinds 101,560	10,100	Angora goats	250	7,500
Totals 2,441,380	\$117,138	Common goats	2.800	8,400
	\$111,100			
Dairy Industry.		Total stock	161,326	\$2,042,465
Production.	Value.	Wool (pounds)	591,050	\$153,87 0
Butter (pounds) 4,600,000	\$1,610,000		***	
Cheese (pounds) 200,000	40,000	Poultry and	nggs.	
Condensed milk (lbs.). 1,199,260	167,896		Dozen.	Value.
Casein 500,000	50.000	Chickens	6,410	\$32,050
Creameries, 12; skimming stati		Ducks	215	1.290
Creameries, 12, samming state	0115, 10.	Geese	84	756
Parant Draduate				
Forest Products.	Valva	Turkeys	307 500,000	4,605 150,000
Amount.	Value.	Turkeys Eggs	307 500,000	4,605 150,000
Area of timber lands		Turkeys	307 500,000	4,605
Area of timber lands (acres) 1,100,000	Value.	Turkeys Eggs Total value	500,000 	4,605 150,000
Area of timber lands (acres)		Turkeys Eggs Total value Miscellaneous 1	807 500,000 	\$188,701
Area of timber lands (acres)	\$940,000	Turkeys Eggs Total value	807 500,000 	\$188,701
Area of timber lands (acres)	\$940,000 2,323,500	Turkeys Eggs Total value Miscellaneous l Bees (hives)—Number,	307 500,000 	\$188,701
Area of timber lands (acres)	\$940,000	Turkeys Eggs Total value Miscellaneous 1	\$07 500,000 	\$188,701 \$1,500.
Area of timber lands (acres)	\$940,000 2,323,500 8,950,000	Turkeys Eggs Total value Miscellaneous l Bees (hives)—Number, i Manufacto	\$07 500,000 	4,605 150,000 \$188,701 , \$1,500.
Area of timber lands (acres)	\$940,000 2,323,500 8,950,000	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, i Manufacto	\$07 500,000 Products. 500; value, ries. Number of Employees.	4,605 150,000 \$188,701 \$1,500. Value of Products.
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 447,500 Sawmills (number) 18 Fuel, wood (cords) 70,000 Laths (thousand) 17,000	\$940,000 2,323,500 8,950,000 210,000 42,500	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, i Manufacto No Brick	307 500,000 Products. 500; value, ries. Number of Employees.	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 447,500 Sawmills (number) 18 Fuel, wood (cords) 70,000 Laths (thousand) 17,000 Lumber (feet) 265,550,000	\$940,000 2,323,500 8,950,000 210,000 42,500 \$3,982,250	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, i Manufacto No Brick 3 Cigars 8	307 500,000 Products. 500; value ries. Number of Employees. 20 33	4,605 150,000 \$188,701 \$1,500. Value of Products.
Area of timber lands (acres)	\$940,000 2,323,500 8,950,000 210,000 42,500 \$3,982,250 1,680	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number . Manufacto No Brick	307 500,000 – Products. 500; value ries. Number of Employees. 20 33	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 47,500 Sawmills (number) 18 Fuel, wood (cords) 70,000 Laths (thousand) 17,000 Lumber (feet) 265,550,000 Pickets (pieces) 84,000 Piles 3,940	\$940,000 2,323,500 8,950,000 210,000 42,500 \$3,982,250 1,680 11,820	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, i Manufacto No Brick 3 Cigars 8	307 500,000 – Products. 500; value, ries. Number of Employees. 20 33	4,605 150,000 \$188,701 ,\$1,500. Value of Products. \$60,000 90,000
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 47,500 Sawmills (number) 18 Fuel, wood (cords) 70,000 Laths (thousand) 17,000 Lumber (feet) 265,550,000 Pickets (pieces) 84,000 Piles 3,940	\$940,000 2,323,500 8,950,000 210,000 42,500 \$3,982,250 1,680	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, I Manufacto Brick 3 Cigars 8 Confectionery 5 Cooper-shops 2 Foundries and iron	7500,000 Products. Succession Suc	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000 90,000
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 47,500 Sawmills (number) 18 Fuel, wood (cords) 70,000 Laths (thousand) 17,000 Lumber (feet) 265,550,000 Pickets (pieces) 84,000 Piles 3,940 Posts (pleces) 37,300	\$940,000 2,323,500 8,950,000 210,000 42,500 \$3,982,250 1,680 11,820	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, i Manufacto Since Sin	7500,000 Products. Succession Suc	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000 90,000
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 447,500 Sawmills (number) 18 Fuel, wood (cords) 70,000 Laths (thousand) 17,000 Lumber (feet) 265,550,000 Pickets (pieces) 84,000 Piles 3,940 Posts (pieces) 37,300	\$940,000 2,323,500 8,950,000 210,000 42,500 \$3,982,250 1,680 11,820 10,476	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, i Manufacto Brick 3 Cigars 8 Confectionery 5 Cooper-shops 2 Foundries and iron works 3	7500,000 Products. Soo; value, ries. Number of 20 33	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000 90,000
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 447,500 Sawmills (number) 18 Fuel, wood (cords) 70,000 Laths (thousand) 17,000 Lumber (feet) 265,550,000 Pickets (pieces) 84,000 Pickets (pieces) 3,940 Posts (pieces) 87,300 Railroad ties (pieces) 468,000 Sash and door fac-	\$940,000 2,323,500 8,950,000 210,000 42,500 \$3,982,250 1,680 11,820 10,476	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, i Manufacto Brick 3 Cigars 8 Confectionery 5 Cooper-shops 2 Foundries and iron works 3 Marble 2	307 500,000 – Products. 500; value, ries. Number of Employees. 20 33	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000 90,000
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 447,500 Sawmills (number) 18 Fuel, wood (cords) 70,000 Laths (thousand) 17,000 Lumber (feet) 265,550,000 Pickets (pieces) 84,000 Piles 3,940 Posts (pleces) 87,300 Railroad ties (pieces) 468,000 Sash and door factories (number) 7	\$940,000 2,323,500 8,950,000 210,000 42,500 33,982,250 1,680 11,820 10,476	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, I Manufacto Manufacto Scigars Confectionery 5 Cooper-shops Foundries and iron works Marble Tanneries 3	307 500,000 – Products. 500; value, ries. Number of Employees. 20 33	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000 90,000 220,000
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 188 Fuel, wood (cords) 70,000 Laths (thousand) 17,000 Limber (feet) 265,550,000 Pickets (pieces) 84,000 Pickets (pieces) 84,000 Posts (pieces) 87,300 Railroad ties (pieces) 468,000 Sash and door factories (number) 7 Shakes (thousand) 15,450	\$940,000 2,323,500 8,950,000 210,000 42,500 \$3,982,250 1,680 11,820 10,476	Turkeys Eggs Total value Miscellaneous Bees (hives)—Number, Manufacto Manufacto Sigars	307 500,000 – Products. 500; value, ries. Number of Employees. 20 33	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000 90,000 220,000
Area of timber lands	\$940,000 2,323,500 8,950,000 210,000 42,500 1,680 11,820 10,476	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, i Manufacto Sigars Confectionery Cooper-shops Foundries and iron works Marble 2 Tanneries 3 Woolen mills 1	307 500,000 –	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000 90,000 220,000
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 188 Fuel, wood (cords) 70,000 Laths (thousand) 17,000 Limber (feet) 265,550,000 Pickets (pieces) 84,000 Pickets (pieces) 84,000 Posts (pieces) 87,300 Railroad ties (pieces) 468,000 Sash and door factories (number) 7 Shakes (thousand) 15,450	\$940,000 2,323,500 8,950,000 210,000 42,500 \$3,982,250 1,680 11,820 10,476	Turkeys Eggs Total value Miscellaneous Bees (hives)—Number, Manufacto Manufacto Sigars	307 500,000 –	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000 90,000 220,000
Area of timber lands	\$940,000 2,323,500 8,950,000 210,000 42,500 1,680 11,820 10,476 154,500 1,087,500	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, i Manufacto Brick 3 Cigars 8 Confectionery 5 Cooper-shops 2 Foundries and iron works 3 Marble 2 Tanneries 3 Tiling 2 Woolen mills 1 Manufactured	\$07 500,000	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000 90,000 220,000 200,000
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 47,500 Sawmills (number) 18 Fuel, wood (cords) 70,000 Laths (thousand) 17,000 Lumber (feet) 265,550,000 Pickets (pieces) 84,000 Pickets (pieces) 87,300 Railroad ties (pieces) 87,300 Railroad ties (pieces) 468,000 Sash and door factories (number) 7 Shakes (thousand) 15,450 Shingles (thousand) 725,000 Stave bolts (cords) 1,800	\$940,000 2,323,500 8,950,000 210,000 42,500 1,680 11,820 10,476 154,500 1,087,500 14,400	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, I Manufacto Sigars Confectionery 5 Cooper-shops Foundries and iron works Marble Tanneries Woolen mills Manufactured Cigars (thousand)	307 500,000 – Products. 500; value, ries. Number of Employees. 20 33 	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000 90,000 220,000 200,000
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 447,500 Sawmills (number) 18 Fuel, wood (cords) 70,000 Laths (thousand) 17,000 Lumber (feet) 265,550,000 Pickets (pieces) 84,000 Pickets (pieces) 87,300 Railroad ties (pieces) 87,300 Railroad ties (pieces) 468,000 Sash and door factories (number) 7 Shakes (thousand) 15,450 Shingles (thousand) 725,000 Stave bolts (cords) 1,800 Total value Power used for mills and man	\$940,000 2,323,500 8,950,000 210,000 42,500 1,680 11,820 10,476 1,087,500 1,087,500 14,400 \$5,516,126	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, I Manufacto Brick 3 Cigars 8 Confectionery 5 Cooper-shops 2 Foundries and iron works 3 Marble 2 Tanneries 3 Tiling 2 Woolen mills 1 Manufactured Cigars (thousand) Hides (pounds)	307 500,000 – Products. 500; value, ries. Number of Employees. 20 33	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000 90,000 220,000 200,000 Quantity. 16,000 45,000
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 188,000 Sawmills (number) 18 Fuel, wood (cords) 70,000 Laths (thousand) 17,000 Lumber (feet) 265,550,000 Pickets (pieces) 84,000 Pickets (pieces) 87,300 Railroad ties (pieces) 87,300 Railroad ties (pieces) 468,000 Sash and door factories (number) 7 Shakes (thousand) 15,450 Shingles (thousand) 15,450 Shingles (thousand) 18,000 Total value Power used for mills and man in county—Steam (number), 95;	\$940,000 2,323,500 8,950,000 210,000 42,500 1,680 11,820 10,476 1,087,500 1,087,500 14,400 \$5,516,126	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, I Manufacto Sigars Confectionery 5 Cooper-shops Foundries and iron works 3 Marble 2 Tanneries 3 Tiling Woolen mills Manufactured Cigars (thousand) Hides (pounds) Lard (pounds)	307 500,000 –	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000 90,000 220,000 200,000 Quantity. 16,000 45,000 800,000
Area of timber lands (acres) 1,100,000 Various kinds (acres) 188,000 Pine (acres) 464,500 Redwood (acres) 447,500 Sawmills (number) 18 Fuel, wood (cords) 70,000 Laths (thousand) 17,000 Lumber (feet) 265,550,000 Pickets (pieces) 84,000 Pickets (pieces) 87,300 Railroad ties (pieces) 87,300 Railroad ties (pieces) 468,000 Sash and door factories (number) 7 Shakes (thousand) 15,450 Shingles (thousand) 725,000 Stave bolts (cords) 1,800 Total value Power used for mills and man	\$940,000 2,323,500 8,950,000 210,000 42,500 1,680 11,820 10,476 1,087,500 1,087,500 14,400 \$5,516,126	Turkeys Eggs Total value Miscellaneous I Bees (hives)—Number, I Manufacto Brick 3 Cigars 8 Confectionery 5 Cooper-shops 2 Foundries and iron works 3 Marble 2 Tanneries 3 Tiling 2 Woolen mills 1 Manufactured Cigars (thousand) Hides (pounds)	307 500,000 –	4,605 150,000 \$188,701 \$1,500. Value of Products. \$60,000 90,000 220,000 200,000 Quantity. 16,000 45,000

IMPERIAL COUNTY.

Imperial is the youngest county in the State, having been formed in 1907 from the eastern part of San Diego County, formerly known as the "Colorado Desert, or Imperial Valley." The progress of the county is practically confined to the central part of the valley.

Dairying is very profitable, owing to the fact that we have alfalfa growing throughout the winter, that furnishes an abundant supply of green pasturage. We have modern creameries with latest appliances, that are located in different sections. The stock used for dairying purposes is of a very high grade, mostly pure-bred representatives of the milk strains.

Imperial Valley is one of the best stock, hog and poultry producing countries in the West, and there are also various other industries which are receiving considerable attention.

There is reason to believe that the cultivation of cotton may hold a most important part in the industrial development of Imperial County, and those interested feel greatly encouraged over the outlook.

The center of this wonderfully fertile valley is reached by a spur from the main line of the Southern Pacific Railroad.

The most important towns of the valley are Imperial, El Centro, Holt-ville, Brawley, and Calexico. There are located in these towns seven strong banking institutions. The hotel accommodations are excellent, and there are a number of sunny modern lodging houses. The school and church accommodations of the valley are excellent.

Imperial Valley is 110 miles long by 40 miles wide, half in California, half in Mexico. Present irrigated area, 40 by 25 miles in California. Irrigated from Colorado River; 50,000 miner's inches are available.

Area of irrigable land in Imperial County, 400,000 acres. In cultivation, 200,000 acres.

Length of canals, about 600 miles. Average rainfall, 4.4 inches.

STATISTICS OF IMPERIAL COUNTY, 1909-10.

General Statistics.	_	Cereal Products and Hay.
	2000	Tons of 2,000 pounds.
Area 4,000 square miles, or 2,560		Acres. Tons. Value.
Number of farms	42,000	Wheat 512 10,333 \$12,400
Number of acres assessed	621,953	Barley 46,073 1,298,500 737,160
Value of country real estate	\$6,029,669	Oats 124 6,118 1,960
Of improvements thereon	\$285,043	Rye 235 7,720 2,760
Of city and town lots	\$1,388,385	Corn 5,127 170,900 102,540
Of improvements thereon	\$586,255	
Of personal property	\$1,314,214	Total cereals. 52,071 1,493,571 \$856,820
Total value of all property	\$9,603,566	Acres. Tons. Value.
Expended on roads, last fiscal	4-,,-	Alfalfa hay 32,703 \$1,187,208
year	\$48,798	Grain hay 1,354 18,248
Expended for bridges, last fis-		
cal year	\$26,01 2	Total hay 34,057 \$1,205,456
Number of miles of public roads	1,250	, , ,
Road levy per \$100, 1910	40c	Fruits, Vegetables, Etc.
Value of county buildings	\$25,000	Total
Irrigating ditches miles, 900;		Production. Green— Pounds. Value.
cost	\$3,500,000	
Railroads, steam - miles, 160;	,-,,	
assessed value	\$3,380,349	
Telegraph-miles, 271; assessed	•	
value	\$38,448	Egg plant 64,000 1,920 Cantaloupe (crates),
Electric power plants - 1; as-	,	
sessed value	\$70,640	1,200 acres 120,000 250,000
Electric transmission lines—	******	Total value \$472,840
miles, 34; assessed value	\$31,800	•
Number of acres irrigated	207,360	Dairy Industry.
Telephone—miles, 84; assessed		
		Production. Value.

IMPERIAL COUNTY.

STATISTICS OF IMPERIAL COUNTY, 1909-10-Continued.

Number of	Fruit T	rees and Vi	nes.	Live Stock	Industry	
				2 2	Number.	Value.
	Bearing.	Non-bearing.	Total.	Cattle—Beef	1.380	\$27,600
Apple	119	149	268	Stock	4,729	94.580
Apricot	4,149	11,086	15,235	Dairy Cows-Graded	8.640	432,000
Cherry	43	157	200	Thoroughbred	150	9,000
Fig	475	1,075	1,551	Ayrshire, common	746	29,840
Lemon	250	497	747	Calves	2,129	11,317
Olive	100	2,090	2.190	Swine	34,29 2	342,920
Orange		2,098	2,398	Horses—Thoroughbred	30	7,500
Peach	285	966	1,251	Standard-bred Common	2,480 2,290	372,000
		2,786		Colts	920	171,900 46,000
Pear			3,151	Jacks and jennies	4	850
Plum	859	60	919	Mules	1.382	138.200
Prune	65	379	444	Sheep	14,755	44,265
Quince	2,250	902	3,152	Lambs	1,100	1,100
Other kinds		• • • • • •	282			
-				Total stock	75,027	\$1,729,072
Total fruit	9,260	22,528	31,788	Wool (pounds)	140,000	70,000
			•	Manufact	ories.	
Grapevines (ac	res)		1,000			of Value of
Cottonwood tre			100,000		o. Employees	. Products.
Eucalyptus tre			359,299		2 60	\$152,400
			,	Confectionery 1	0 14	62,250
				Power used for mills		
				in county—Steam (nu		
Po	ultry and	i Eggs.		(number), 1; water (n		; gasoline
				cotton gins (number),		
		Dozen.	Value.	Manufactured	Output.	
Chickens		2,673	\$13,365		Pounds.	Value.
Turkeys		171	2,052	Bees (hives)—Number	2,528	\$12,640
Eggs		127,680	31,920	Beeswax	5,750	1,440
				Cotton		685,000
Motel reluc			\$47.337	Honey		41,400 90,000
Total value .			P41,331	Cotton seed	3,000,000	50,000

KERN COUNTY.

Kern County, lying in the southern end of the San Joaquin Valley, its easterly boundary extending on to the Mojave Desert over the extreme southerly end of the Sierra Nevada Mountains, is the second largest county in the State and probably has the most diversified resources of any.

At Randsburg, on the eastern border, is one of the largest gold mines on this coast, and the country around Randsburg has many smaller mines that are free-milling ore, which make them paying properties for

people or corporations of small means.

Along the southern border where the line crosses the San Emidio Mountains are large deposits of iron ore and antimony, which are yet undeveloped, and along the western side of the county are the Sunset, Midway, and McKittrick oil fields, lying along the eastern base of the Coast Range Mountains, and which promise to yield untold wealth in their future production of oil.

In the northern part of the county, and surrounding the town of Delano, is a large body of good land which is now attracting considerable attention from investors, as development has shown that within a few feet of the surface lies an unlimited quantity of water, which can be raised to the surface to transform the arid plains into orchards and

alfalfa fields.

In the northeastern part of the mining town of Kernville, surrounded by good mines, and near it on the south fork of the Kern River is the South Fork Valley, where numerous prosperous stockmen have their alfalfa fields that furnish feed to the stock that pasture in the high Sierras in the summer time.

In the center and surrounding the town of Bakersfield, the county seat, lie thousands of acres of fertile land that are irrigated by Kern River, and which are mostly used to raise stock and alfalfa, but will produce anything that can be raised where there is good land and an abundance of sunshine.

The Federal census, as just reported, furnishes convincing proof as to the marvelous growth of Kern County, the figures being 37,715, a gain of 128.85 per cent over the census of ten years ago. This growth was not confined to any one section of the county, though greatest in the oil fields and Bakersfield, but the valley farming section showed a great increase. Nor is such growth confined to the irrigated lands, a big increase being noted in the territory dependent upon raising water from the subterranean streams.

The details set forth in the following report compared with the figures of previous years tell the story of increasing acreage cultivation which promises a greater output in cereals, fruits and alfalfa than every before.

In the oil fields the development work is continuous, besides the proven territory where the work is steadily progressing, an entirely



new field, Lost Hills, is being exploited and the discoveries there indicate that the petroleum bearing territory is continuous from Sunset

to the north line of the county.

Conditions affecting labor are most favorable. The rapid upbuilding of Bakersfield is furnishing employment to many skilled laborers and in the oil fields thousands of men are at work at remunerative wages. The increase in farm products, the larger oil output and big pay rolls are all contributing to the continuous prosperity of the county, and promise to make for still greater progress in the future.

STATISTICS OF KERN COUNTY, 1909-10.

General Statistics.	Fruits, Vegetables, Etc.	
Area 8,100 square miles, or 5,184,000 acres.	Total	
Number of farms 1,500	Green— Production. Pounds.	Value.
Number of acres assessed 2,987,753		
Value of country real estate \$24.325.739	Apricots 600,000	\$6,000
Of improvements thereon \$4,329,605	Oranges (boxes) 12,000 Peaches 400,000	$\frac{18,000}{3,000}$
Of city and town lots \$2.443.826	1 eaches 400,000	3,000
Of improvements thereon \$2.683.690	Totals 1,012,000	\$27,000
Of personal property \$11,908,548		
Total value of all property, in-	Dried—Pounds.	Value.
eluding railroad \$52,350,546 Expended on roads, last fiscal	Almonds 40,000 Apricots 20,000	\$2,800
year\$103,585	Apricots	14,000 9,600
Expended for bridges, last fis-	Prunes 120,000	3,600
cal year	Raisins 920,000	23,000
Number of miles of public roads 1,600		
Road levy per \$100, 1910 35c	Totals 1,340,000	\$53,000
Value of county buildings \$267,000	Canned— Cases.	Value.
Irrigating ditches — miles, 209;	Apricots 800	\$2,520
cost \$447,090	Grapes 100	290
Railroads, steam—miles, 544.54;	Pears 50	370
assessed value	Peaches 2,100	7,350
assessed value	Plums 75	225
Electric power plants — 3; as-		
sessed value \$2,506,590	Totals 3,125	\$10,755
Electric power lines-miles,		
144½; assessed value \$473,820	Live Stock Industry.	
Number of acres irrigated 140,000	Number.	Value.
Total value of all property includes rail-		\$1,120,000
roads, by State board.	Stock 62,000	1,240,000
		115 500
Number of Proit Trees and Vines	Dairy Cows—Graded 3,300	110,000
Number of Fruit Trees and Vines.	Calves 10,000	115,500 100,000
Bearing. Non-bearing. Total.	Calves 10,000 Swine 10,000	100,000 110,000
Bearing. Non-bearing. Total. Apple 1,200 5,000 17,000	Calves	100,000 110,000 16,000
Bearing. Non-bearing. Total. Apple 1,200 5,000 17,000 Apricot 25,000	Calves	100,000 110,000 16,000 750,000
Apple Bearing Non-bearing Total. 1,200 5,000 17,000 Apricot 25,000 25,000 Cherry 1,000 1,000	Calves	100,000 110,000 16,000 750,000 50,000
Bearing. Non-bearing. Total. Apple 1,200 5,000 17,000 Apricot 25,000 25,000 25,000 Cherry 1,000 1,000 1,000 Fig 1,000 1,000 1,000	Calves 10,000 Swine 10,000 Horses—Thoroughbred 17 Common 8,500 Colts 1,100 Mules 1,700	100,000 110,000 16,000 750,000 50,000 170,000
Bearing. Non-bearing. Total. Apple 1,200 5,000 17,000 Apricot 25,000 25,000 Cherry 1,000 1,000 Fig 1,000 1,000	Calves	100,000 110,000 16,000 750,000 50,000 170,000 810,000
Apple 1,200 5,000 17,000 Apricot 25,000 5,000 17,000 Cherry 1,000 1,000 Fig 1,000 500 1,000 Nectarine 1,000 5,000 1,000 Nectarine 5,000 5,000 5,000	Calves 10,000 Swine 10,000 Horses—Thoroughbred 17 Common 8,500 Colts 1,100 Mules 1,700	100,000 110,000 16,000 750,000 50,000 170,000
Apple Bearing. Non-bearing. Total. Apricot 1,200 5,000 17,000 Apricot 25,000 25,000 Cherry 1,000 1,000 Fig 1,000 1,000 Lemon 500 500 1,000 Nectarine 1,000 1,000 Olive 5,000 5,000 Orange 6,500 20,000 26,500	Calves 10,000 Swine 10,000 Horses—Thoroughbred 17 Common 8,500 Colts 1,100 Mules 1,700 Sheep 180,000 Lambs 90,000	100,000 110,000 16,000 750,000 50,000 170,000 810,000
Apple Bearing. Non-bearing. Total. Apricot 25,000 5,000 17,000 Cherry 1,000 1,000 Fig 1,000 1,000 Lemon 500 500 1,000 Nectarine 1,000 1,000 1,000 Olive 5,000 5,000 5,000 Orange 6,500 20,000 28,500 Peach 50,000 8,000 58,000	Calves 10,000 Swine 10,000 Horses—Thoroughbred 17 Common 8,500 Colts 1,700 Mules 1,700 Sheep 180,000 Lambs 90,000 Total stock 394,615	100,000 110,000 16,000 750,000 50,000 170,000 810,000 180,000
Apple Bearing. Non-bearing. Total. Appricot 1,200 5,000 17,000 Apricot 25,000 25,000 Cherry 1,000 1,000 Fig 1,000 1,000 Lemon 500 500 1,000 Nectarine 1,000 1,000 1,000 Olive 5,000 5,000 20,000 28,500 Orange 6,500 20,000 28,500 Peach 50,000 8,000 58,000 Pear 1,500 1,500	Calves 10,000 Swine 10,000 Horses—Thoroughbred 17 Common 8,500 Colts 1,100 Mules 1,700 Sheep 180,000 Lambs 90,000	100,000 110,000 16,000 750,000 50,000 170,000 810,000
Apple Bearing Non-bearing Total. Apple 1,200 5,000 17,000 Apricot 25,000 25,000 Cherry 1,000 1,000 Fig 1,000 1,000 Lemon 500 500 1,000 Nectarine 1,000 1,000 Olive 5,000 5,000 5,000 Orange 6,500 20,000 26,500 Peach 50,000 8,000 58,000 Pear 1,500 1,500 Plum 6,000 6,000	Calves 10,000 Swine 10,000 Horses—Thoroughbred 17 Common 8,500 Colts 1,700 Sheep 180,000 Lambs 90,000 Total stock 394,615 Wool (pounds) 1,900,000	100,000 110,000 16,000 750,000 50,000 170,000 810,000 180,000
Apple Bearing Non-bearing Total Approx 1,200 5,000 17,000 Apricot 25,000 .5,000 15,000 Cherry 1,000 1,000 1,000 Fig 1,000 1,000 1,000 Nectarine 1,000 500 1,000 Nectarine 1,000 5,000 5,000 Orange 6,500 20,000 26,500 Peach 50,000 8,000 58,000 Pear 1,500 1,500 Plum 6,000 6,000 Prune 41,000 41,000	Calves	100,000 110,000 16,000 750,000 50,000 170,000 810,000 180,000
Apple Bearing Non-bearing Total Approx 1,200 5,000 17,000 Apricot 25,000 .5,000 1,000 Cherry 1,000 1,000 1,000 Fig 1,000 1,000 1,000 Nectarine 1,000 500 1,000 Nectarine 5,000 5,000 5,000 Orange 6,500 20,000 26,500 Peach 50,000 8,000 58,000 Pear 1,500 1,500 Plum 6,000 6,000 Prune 41,000 41,000	Calves	100,000 110,000 16,000 750,000 50,000 170,000 810,000 180,000 190,000
Apple Bearing Non-bearing Total Apricot 1,200 5,000 17,000 Apricot 25,000 25,000 Cherry 1,000 1,000 Fig 1,000 1,000 Lemon 500 500 1,000 Nectarine 1,000 5,000 5,000 Olive 5,000 20,000 26,500 Peach 50,000 8,000 58,000 Peach 50,000 1,500 Plum 6,000 6,000 Prune 41,000 41,000 Quince 500 500 Other kinds 200 200	Calves	100,000 110,000 16,000 750,000 50,000 170,000 810,000 180,000 190,000
Apple Bearing Non-bearing Total Appricot 1,200 5,000 17,000 Apricot 25,000 25,000 Cherry 1,000 1,000 Fig 1,000 1,000 Lemon 500 500 1,000 Nectarine 1,000 500 1,000 Olive 5,000 5,000 26,500 Orange 6,500 20,000 28,500 Peach 50,000 8,000 58,000 Pear 1,500 1,500 Plum 6,000 6,000 Prune 41,000 41,000 Quince 500 500	Calves	100,000 110,000 16,000 750,000 170,000 810,000 180,000 190,000
Apple Bearing. Non-bearing. Total. Appricot 1,200 5,000 17,000 Apricot 25,000 25,000 Cherry 1,000 1,000 Fig 1,000 1,000 Lemon 500 500 1,000 Nectarine 1,000 5,000 5,000 Olive 5,000 20,000 28,500 Peach 50,000 8,000 58,000 Peach 1,500 1,500 Plum 6,000 6,000 Prune 41,000 41,000 Prune 500 500 Other kinds 200 200 Total fruit 151,200 33,500 184,700	Calves	100,000 110,000 16,000 750,000 170,000 810,000 180,000 190,000 Value. \$160,000 332,500
Apple 1,200 5,000 17,000 Apricot 25,000 5,000 17,000 Cherry 1,000 1,000 Fig 1,000 500 1,000 Nectarine 1,000 500 1,000 Orange 6,500 20,000 26,500 Peach 50,000 8,000 58,000 Peach 50,000 6,000 Prum 6,000 6,000 Prune 41,000 41,000 Orange 6,500 20,000 20,500 Conductor 1,000 500 1,000 Conductor 1,000 Conductor 1,000 1,000 Conductor 1,00	Calves	100,000 110,000 16,000 750,000 170,000 810,000 180,000 190,000
Apple 1,200 5,000 17,000 Apricot 25,000 5,000 17,000 Cherry 1,000 1,000 1,000 Nectarine 5,000 1,000 Nectarine 5,000 5,000 1,000 Nectarine 1,000 5,000 1,000 Orange 6,500 25,000 26,500 Pear 1,500 6,000 6,000 Prume 41,000 6,000 Prume 41,000 41,000 Quince 500 500 1,500 Other kinds 200 200 200 200 Cother kinds 200 25,000 25,000 Cother kinds 200 25,000 25,000 Cother kinds 200 25,000 25,000 Cother kinds 200 200 Cother kinds 200 25,500 Cother kinds 25,500 25,50	Calves	100,000 110,000 16,000 750,000 170,000 810,000 180,000 190,000 Value. \$160,000 332,500
Apple 1,200 5,000 17,000 Apricot 25,000 5,000 17,000 Cherry 1,000 1,000 Fig 1,000 500 1,000 Nectarine 1,000 5,000 1,000 Olive 5,000 5,000 1,000 Orange 6,500 20,000 28,500 Peach 50,000 8,000 58,000 Pear 1,500 6,000 1,500 Pium 6,000 6,000 1,500 Orange 500 0 20,000 28,500 Pear 1,500 500 1,500 Orange 7,500 500 1,500 Orange 7,500 500 1,500 Orange 8,500 20,000 28,500 Orange 1,500 500 1,500 Orange 1,500 500 1,500 Orange 2,000 2,000 2,500 Orange 2,000 2,000 2,500 Orange 1,500 500 1,500 Orange 2,000 2,000 2,000 Orange 2,000 2,000 2,000 Orange 2,000 2,000 2,000 Orange 2,000 33,500 184,700 Orange 2,500 Orange 2,500 2,500 Orange 2,500 Orange 3,500 2,500 Orange 2,500 Orange 2,500 2,500 Orange 2,500 Orange 2,500 Orange 2,500 2,500 Orange 2,500 Orange 2,500 Orange 2,500 Orange 2,500 2,500	Calves	100,000 110,000 16,000 50,000 50,000 170,000 810,000 180,000 190,000 Value. \$160,000 332,500 134,400 \$626,900
Apple 1,200 5,000 17,000 Apricot 25,000 5,000 17,000 Cherry 1,000 1,000 Fig 1,000 500 1,000 Nectarine 1,000 5,000 1,000 Olive 5,000 5,000 28,500 Orange 6,500 20,000 28,500 Peach 50,000 8,000 58,000 Pear 1,500 8,000 58,000 Pium 6,000 6,000 Prune 41,000 6,000 Quince 500 20,000 20,000 Crange 1,500 20,000 20,000 Crange 50,000 50,000 Crange 50,000 50,000 Crange 50,000 50,000 Crange 1,500 50,000 Crange 1,500 50,000 Crange 50,000 50,000 Crange 1,500 50,000 Crange 1,500 50,000 Crange 1,500 50,000 Crange 1,500 500 Crange 2,500 500 Crange 2,500 Crange 2,500 2,500 Crange 2,500 2,500 Crange 2,500 2,500	Calves	100,000 110,000 16,000 50,000 50,000 170,000 810,000 180,000 190,000 Value. \$160,000 332,500 134,400
Apple 1,200 5,000 17,000 Apricot 25,000 5,000 17,000 Cherry 1,000 1,000 Fig 1,000 500 1,000 Nectarine 1,000 5,000 1,000 Olive 5,000 5,000 1,000 Orange 6,500 20,000 26,500 Peach 50,000 8,000 58,000 Pear 1,500 8,000 58,000 Plum 6,000 6,000 Prune 41,000 41,000 Quince 500 500 1,000 Orange 1,500 5,000 58,000 Total fruit 151,200 33,500 184,700 Almond 2,500 Peach 200 2,500 Peach 200 2,500 Peach 2,500 2,500 Total fruit 2,550 2,550	Calves	100,000 110,000 16,000 750,000 750,000 170,000 180,000 180,000 190,000 Value. \$160,000 332,500 134,400 \$626,900 Value.
Apple 1,200 5,000 17,000 Apricot 25,000 5,000 17,000 Cherry 1,000 1,000 Fig 1,000 500 1,000 Nectarine 1,000 5,000 1,000 Olive 5,000 5,000 1,000 Orange 6,500 20,000 28,500 Peach 50,000 8,000 58,000 Pear 1,500 6,000 1,500 Pium 6,000 6,000 Prune 41,000 41,000 Quince 500 500 Other kinds 200 20,000 28,500 Total fruit 151,200 33,500 184,700 Almond 2,500 Pecan 200 2,500 Walnut 2,550 2,550 Total nut 2,950 2,950	Calves	100,000 110,000 16,000 750,000 750,000 170,000 810,000 180,000 190,000 Value. \$160,000 332,500 134,400 \$626,900 Value. \$185,000 180,000
Apple Bearing Non-bearing Total Appricot 1,200 5,000 17,000 Apricot 25,000 1,000 1,000 Cherry 1,000 1,000 1,000 Fig 1,000 500 1,000 Nectarine 1,000 5,000 5,000 Olive 5,000 20,000 28,500 Peach 50,000 8,000 58,000 Peach 50,000 8,000 58,000 Plum 6,000 6,000 1,500 Prume 41,000 41,000 200 Quince 500 200 200 Other kinds 200 200 200 Total fruit 151,200 33,500 184,700 Almond 2,500 2,500 2500 Pecan 200 2500 Walnut 250 250 Total nut 2,950 2,950 Grapevines 1,100 1,100 <td> Calves</td> <td>100,000 110,000 16,000 50,000 50,000 170,000 810,000 180,000 190,000 Value. \$160,000 332,500 134,400 \$626,900 Value. \$185,000</td>	Calves	100,000 110,000 16,000 50,000 50,000 170,000 810,000 180,000 190,000 Value. \$160,000 332,500 134,400 \$626,900 Value. \$185,000
Apple 1,200 5,000 17,000 Apricot 25,000 5,000 17,000 Cherry 1,000	Calves	100,000 110,000 110,000 16,000 750,000 170,000 810,000 180,000 190,000 332,500 134,400 \$626,900 Value. \$185,000 180,000 \$365,000
Apple 1,200 5,000 17,000 Apricot 25,000 1,000 Cherry 1,000 1,000 Fig 1,000 500 1,000 Nectarine 1,000 500 1,000 Orange 6,500 25,000 Peach 50,000 500 1,000 Pear 1,500 8,000 58,000 Pear 1,500 6,000 1,500 Portune 41,000 1,500 Orange 500 500 1,000 Crange 6,500 20,000 28,500 Pear 1,500 8,000 58,000 Pear 1,500 1,500 Portune 41,000 1,500 Other kinds 200 200 Other kinds 200 200 Almond 2,500 200 Pecan 200 200 Walnut 2,500 2,500 Pecan 200 200 Walnut 2,550 2,550 Grapevines 1,100 1,100 Berries, acres 65	Calves	100,000 110,000 16,000 50,000 50,000 170,000 810,000 180,000 190,000 Value. \$160,000 332,500 134,400 \$626,900 Value. \$185,000 180,000 \$365,000 shipped
Apple 1,200 5,000 17,000 Apricot 25,000 5,000 17,000 Cherry 1,000	Calves	100,000 110,000 16,000 750,000 750,000 170,000 810,000 180,000 190,000 332,500 134,400 Value. \$185,000 \$134,400 \$135,000 \$13626,900 \$136,000 \$1365,000 \$1365,000 \$1365,000 \$1365,000 \$1365,000 \$1365,000 \$1365,000 \$1365,000
Apple 1,200 5,000 17,000 Apricot 25,000 1,000 Cherry 1,000 1,000 Fig 1,000 500 1,000 Nectarine 1,000 500 1,000 Orange 6,500 25,000 Peach 50,000 500 1,000 Pear 1,500 8,000 58,000 Pear 1,500 6,000 1,500 Portune 41,000 1,500 Orange 500 500 1,000 Crange 6,500 20,000 28,500 Pear 1,500 8,000 58,000 Pear 1,500 1,500 Portune 41,000 1,500 Other kinds 200 200 Other kinds 200 200 Almond 2,500 200 Pecan 200 200 Walnut 2,500 2,500 Pecan 200 200 Walnut 2,550 2,550 Grapevines 1,100 1,100 Berries, acres 65	Calves	100,000 110,000 16,000 750,000 750,000 170,000 810,000 180,000 190,000 332,500 134,400 Value. \$185,000 \$134,400 \$135,000 \$13626,900 \$136,000 \$1365,000 \$1365,000 \$1365,000 \$1365,000 \$1365,000 \$1365,000 \$1365,000 \$1365,000

STATISTICS OF KERN COUNTY, 1909-10-Continued.

Pourty and	mggs.		manuacius du Output	
	Donen.	Value.	_	Quantity.
Chickens	6.000	\$24,000	Brick (thousand)	6.990.748
Ducks	200	1,200	Cigars (thousand)	538,000
Geese	40	400	Flour (barrels)	18,720
Turkeys	500	7.500	Lime (barrels)	90,000
Eggs	300.000	60,000	Hides (pounds)	739,645
TIESS	-	00,000	Tallow (pounds)	383,155
Total value		\$93,100	Soap (pounds)	70,000
No mention made in	the abov	e except	Forest Products.	
poultry farms.			Area of timber lands 10,000	eares not
			owned by the government; mo	
Manufacto	ries.		Sawmills. 2.	suy pine.
	Number of	Value of	Lumber, 650,000 feet, value \$13.0	100
No	. Employees.	Products.	Two small mills to supply the	
Brick 1	50	\$55,925	the mountain districts.	demand m
Cigars 2	20	24.210	the mountain districts.	
Confectionery 2	~6	32,000	Miscellaneous Products	
Flouring mills 1	15	101.088	Pounds.	Value.
Foundries and iron		202,000	Bees (hives)—Number 8.000	\$32,000
works 3	102	325.000		500
Lime 3	75	75,000		000
Meat products		.0,000		15 000
		72 795		
		29, 370	Alfolfo sood 140 000	
Meat products— Hides Tallow		72,795 29,370	(acres), roses 30 Honey 192,000 Alfalfa seed 140.000	15,000 9,200 21,000

LAKE COUNTY.

By her sister counties, Lake has long been cheerfully accorded the title of "The Switzerland of America," owing to her beauty of scenery. The county is located in the heart of the Coast Range, about 100 miles north of San Francisco, and is about 75 miles long and 25 miles wide. Mount St. Helena guards the southern extremity. Clear Lake is a splendid sheet of fresh water 25 miles long and from 2 to 10 miles broad; with the lake surface at an elevation of 1,350 feet about sea level, and having a depth sufficient to float vessels of considerable tonnage and draft, receiving in its basin the waters from several streams of considerable flow. It is stocked with an amazing wealth of native food fishes and bordered by smiling valleys of great fertility, by orchards of luscious fruit, by gently swelling slopes, by rugged mountains, by wild canyons, touched with a certain savage beauty, and bearing upon its heaving breast a constantly increasing proportion of the internal commerce of the community. Clear Lake is the pride of Lake County, as well as the source of its name.

Although classed as mountainous, Lake County has a number of very fertile valleys, some of them being of large area. Artesian water is obtainable in profuse quantities, and with comparatively small outlay of money or effort. Fields are growing luxuriant crops of grain, though annually sown in the same crop for more than a half century. A variety of soils is found throughout the county, and even the valleys show differences. Generally, the valleys are rich with alluvium, but in places there are extensive tracts of adobe, black and heavy, and apparently inexhaustible in productiveness. Occasionally, a sandy loam is found in the valleys, especially in the neighborhood of the streams traversing the county at short intervals. On the plateau crowning the low foothills which ring the valleys is a lighter soil, and when cleared is capable of raising large vineyards and orchards of peaches, prunes, etc. The rocky hillsides furnish pasture for flocks of Angora goats.

Large bodies of sugar and yellow pine, fir, cedar, and oak give employment to several sawmills and furnish the home market a good

quality of lumber.

The minerals have heretofore been represented by the quicksilver industry, although gold, silver, copper, and oil have been discovered in small quantities. Besides quicksilver, immense quantities of mineral water have been bottled at the many mineral springs and shipped to all parts of the country. The several mineral springs are the sites for as many health resorts, as many as thirty thousand guests being entertained from all parts of the country each summer. Some of them go to the resorts for their health, the bright, clear atmosphere being very beneficial, and the waters frequently having a highly curative property in certain complaints. Others seek the deer, the fishing, and other sports. Among the resorts are Bartlett, Highlands, Adams, Harbin, Zeigler, Witter, and Anderson Springs; Blue Lakes, Laurel Dell,

Hobergs, Soda Bay, Glenbrook, Carlsbad, Saratoga, Bonanza, Astorg,

England, Howard, and Bynum.

There are several mines from which large amounts of quicksilver have been taken. Natural gas is found. There are large deposits of sulphur and of borax in some parts of the county.

STATISTICS OF LAKE COUNTY, 1909-10.

STATISTICS OF LAKE COUNTY, 1909-10.				
General Statistics.	Poultry and	l Eggs.		
Area 1,332 square miles, or 852,480 acres.		Dozen. Value.		
Number of forms 1.008	Chickens	2,171 \$9,080 29 145		
Number of acres assessed 365,429 Value of country real estate \$2,057,722	Ducks	19 235		
Value of country real estate \$2,057,722	Turkeys	550 16.500		
Of improvements thereon \$528,850 Of city and town lots \$247,845	Eggs	213,210 42,642		
Of improvements thereon \$282,450	Number of Fruit T	rees and Vines.		
Of personal property \$350,070	Bearing.	Non-bearing. Total.		
Total value of all property \$3,646,189	Apple 19.650	1.050 20.700		
Expended on roads, last fiscal year	Apricot 2,570 Cherry 1,135 Fig 475	115 2,685		
Expended for bridges, last fis-	Fig 475	115 1,250 100 575		
cal year	Nectarine 215	25 240		
cal year \$5,605 Number of miles of public roads Road levy per \$100, 1910	Olive 3,760	200 3,960		
Value of county buildings \$32,500	Orange 193	4 197		
Irrigating ditches (miles) 17 Electric power plants (number) 1 Electric power lines (number) 130	Peach 4,970	275 5,245 8,625 50,315		
Electric power plants (number)	Pear 41,690 Plum 1,997 Prune 57,750 Quince 260	100 2,097		
Electric power lines (number) 3 Number of acres irrigated 160	Prune 57,750	100 2,097 1,000 58,750 20 280		
Itumbor of words in Barren	Quince 260 Almond 9,250	20 280 700 9,950		
Cereal Products and Hay.	Chestnut 21	21		
Tons of 2,000 pounds. Acres. Bushels. Value.	Pecan 10			
Mheat 3,933 79,326 \$70,066	Walnut 1.690	1,080 2,770 315		
Rarley 3.566 92,953 82,354	Other nuts 315 Grapevines 394,640	43,600 438,240		
Barley 3,566 92,953 82,354 Oats 1,185 21,211 18,754 Rye 5 130 150	Berries, acres. 28	28		
Rye 5 130 150 Corn 343 13,656 7,320	· ·	bles Fte		
Agree Tons. Value.	Fruits, Vegeta	Total		
Alfalfa hay 1.520 7.175 \$34,800	1	Production.		
Grain hay 4,143 5,875 55,900	Green-	Pounds. Value.		
Grass hay 1,015 1,230 10,650	Apples	2,214,450 \$13,024 26,000 685		
Live Stock Industry.	Apricots	26,000 685 29,000 1,190		
Number. Value.	Beans	15,250 710		
Cattle—Beef 1,582 \$51,805 Stock 3,563 71,260 Dairy Cows—Graded 790 24,700 Calves 1,280 9,200 Swine 6,030 51,125	Beets	61,000 310		
Stock	Cabbage	29,600 760 4,000 200		
Calves 1,280 9,200	Celery	2,000 100		
Swine 6,030 51,125	Corn	01,000 590		
Horses—Thoroughbred 7 8,000 Standard-bred 102 16,000	Currants	200 10 16.000 890		
Standard-bred 102 16,000 Common 1,820 117,500	Figs	16,000 890 11,600 272		
Colts	Gooseberries	2,000 50		
Colts	Gooseberries Grapes	950,000 2,500		
Mules	Loganberries Nectarines	6,700 429 8,400 223		
Tamba 2.620 5.825	Onions	18,000 360		
Common goats 9,882 24,240 Wool (pounds) 65,830 \$12,206	Olives	20,000 500		
Common goats 9,882 24,240 Wool (pounds) 65,830 \$12,206 Mohair (pounds) 35,020 8,180	Pears	1,271,000 22,505		
Monati (pounds)	Peaches	131,300 2,686 5,000 300		
Forest Products.	Persimmons	400 10		
Amount. Value.	Persimmons	11,000 150 727,500 9,805		
Area of timber lands 48,000 \$240,000	Trish potatoes	727,500 9,805 7,100 121		
Sowmille (number) 9 12.500	Quinces	3,500 205		
	Strawberries	17,500 1,490		
Fuel, wood (cords) 5,860 25,440 Lumber (feet) 2,036,000 36,000	Tomatoes	87,500 1,045		
Posts (pieces) 6,100 615	Dried—	Pounds. Value.		
Sash and door fac-	Almonds	74,800 8,340 22,000 1,320		
tories (number)	Apples	2.000 100		
	Onions	44,000 720		
Power used for mills and manufactories	Pears	611.600 55.044		
in county—Steam (number), 16; electrical (number), 4; water (number), 3.	Peaches	2,400 200 25,000 500		
	Plums	1,476,000 38,580		
Dairy Industry. Production. Value.	wainuts	11,000 1,240		
Production. Value. Butter (pounds) 100,500 \$37,135	Yerba Santa	40,000 800		
Butter (pounds) 100,500 \$37,135 Cheese (pounds) 154,750 37,117	Canned—	Cases. Value. 30,000 67,500		
Creameries, 5.	Beans	30,000 01,300		

STATISTICS OF LAKE COUNTY, 1909-10-Continued.

Wines, Brandies, Etc.		Manufactories.	
Gailona 51,150	Value. \$4,680 30 250	Number No. Employe	
Miscellaneous Products. Pounds. Bees (hives), number275	Value. \$500	Flouring mills	52,502 10,000 6,000 58,725
Honey 6,500 Hops 30,000 Alfalfa seed 240,410 Clover seed 200 Mineral water 40,000	3,000 30,369 40 167,000	Manufactured Output.	Quantity. 8,745

LASSEN COUNTY.

Lassen County lies in the northeastern part of California along the Nevada line. It is traversed from south to north by the Nevada-California-Oregon Railway (narrow gauge), which connects at Reno, Nevada, with the Southern Pacific system. Susanville, the county seat, is in Honey Lake Valley, a little south of the center of the county. Lassen embraces large areas, comprising rich valley lands, suited to agriculture; rolling hills and uplands, affording splendid range for stock; and mountain table-lands covered with timber.

The county two years ago had a population of only about 5,000. It could easily support many times that number. The assessment roll now foots over five and a half millions. The county has no debt, and the tax rate is low. The people are generally well-to-do and prosperous. The bank at Susanville, with a capital of \$50,000, has more than \$300,000 on

deposit, which shows a condition of easy finances.

The principal present industries are farming and stock raising. There are paying mines in the county, but as a whole Lassen is not mineral. Timber lands which are not in forest reserves are now generally held in private ownership, but as yet the manufacture of lumber has not been commenced. But farming and stock raising will always be the principal industries of the county. Climate and soil are par-

ticularly adapted to them.

The altitude of the largest, most fertile and most productive valleys, such as Honey Lake Valley, Big Valley, and Long Valley, is a little over 4,000 feet. Other large valleys, like Madeline Plains, Willow Creek Valley, and Secret Valley, are in the neighborhood of 5,000 feet above sea level. While the high valleys are not as well adapted to general farming as the lower ones, they are quite productive, and well suited to the stock raising business. The climate generally is similar to that of the northeastern states, so far as range of temperature is concerned, but our summer season is quite dry, making irrigation necessary as a rule. With irrigation, where the altitude is not too great, any of the ordinary products of the temperate zone can be produced in abundance and of fine quality. Apples, pears, cherries, peaches, apricots, and berries of all kinds do splendidly. Of farm products, alfalfa is probably the most important, though native grasses, timothy, and redtop are extensively raised.

Good hay and grass and pure cold water make the county an ideal one for dairying. There are a number of creameries in the county, and

their product commands the top price in city markets.

Improved farm lands range in price from \$25 to \$100 or more per acre. District schools are scattered all over the county. A county high school is located at Susanville. There are quite a number of churches in the county, including Methodist, Baptist, Catholic, and others. Three weekly newspapers are published—the Lassen Advocate and Lassen Weekly Mail at Susanville, and the Big Valley Gazette at Bieber.

Susanville is the largest town. It has a good and abundant water supply and good facilities for fighting fire. Its stores are well stocked, and goods are sold at reasonable prices. Business buildings, as a rule,

are substantial, and residences handsome.

Lassen County has a range of temperature wide enough to give a



pleasing variety to the season. Health conditions are fine. Pulmonary diseases are very rare, and malaria almost unknown. There are still large quantities of land open for entry, which, with water for irrigation, will make good farms and homes. There is plenty of water to irrigate these lands.

STATISTICS OF LASSEN COUNTY, 1909-10.

General Statistics.		Live Stock	Industry.	
Area 4,690 square miles, or 3,001,			Number.	Value.
Number of farms	750 802,910	Stock	9,000 3 5,000	\$360,000 700,000
Value of country real estate	\$02,910 \$4,126,865 \$429,559	Dairy Cows—Graded	150	700,000 6,000 80,000
Of improvements thereon Of city and town lots	2X4 PAU	Calves Swine	10,000 3,000	80,000 21,000
Of improvements thereon	\$117,432 \$1,167,141 \$7,272,217	Trouges—Indicate the contract of the contract	21	63,000
Of personal property	\$1,167,141 \$7,979,217	Standard-bred	76 7,500	22,800 750,000
Expended on roads and bridges,	#1,212,211	Coits	1,565	31 300
last fiscal year Number of miles of public roads Road levy per \$100, 1910 Value of county buildings	\$40,000	Jacks and jennies Mules	75 300	7,500
Road levy per \$100, 1910	1,300 40c	Sheep	29,000	30,000 87,000 50,000
Value of county buildings	\$47,000	Lambs	25,000	50,000
Irrigating ditches (miles) Railroads, steam—miles, 165.58:	150	Angora goats	500 500	$\frac{2,000}{1,200}$
Railroads, steam—miles, 165.58; assessed value Number of acres irrigated	\$1,137,161 30,000	_	101 007	
Cereal Products and Hay		Total stock	121,687	\$2,212,100
Tons of 2,000 pounds.	•	Forest Pr	Amount.	Value.
Acres. Tons.	Value.	Area of timber lands		
Wheat 12,000 4,500 Barley 3,000 1,000	\$135,000 30,000	(acres)	240,000 10	\$2,500,000
Oats 2,500 800	20,000	Lumber (feet)	4,500,000	30,000 60,000
Rye 1,500 600 Corn 60	24,000 1,200	Posts (pieces)	15,000	1,500
		Railroad ties (pieces). Sash and door fac-	100,000	• • • • • • • • • • • • • • • • • • • •
Total cereals 19,060 6,900 Alfalfa hay 20,000 80,000	\$210,200 \$400,000	tories (number)	1	• • • • • • • • • • • • • • • • • • • •
Grain hay 1,200 3,000	16,000	Total value		\$2,591,500
Grain hay 1,200 3,000 Grass hay 90,000 150,000	600,000	Power used for mills	and man	ufactories
Total hay111,200 233,000	\$1,016,000	in county—Steam (nur (number), 1; water (nu	mber), 16;	electrical
Fruits, Vegetables, Etc.	,,,	Wines, Bran		
Total Production.		Cider, 130 barrels. Be		rrels.
Green— Pounds.	Value.	Number of breweries	3, 1.	
Apples	\$2,000 120	M iscellaneous		•
Asparagus 300	30	Bees (hives)—Number	Pounds. 1,000	Value. \$1,200
Blackberries 2500	200 50	Honey	2,000	200
Beets 20,000	450		500,000	80,000
Cabbage	1,500 140	Manufac		
Cauliflower 2,000	40	1	Number o	r value or . Products.
Cauliflower 2,000 Corn 20,000 Currants 2,500	400	Confectionery Flouring mills	2 4 3 8	\$40,000
Gooseberries 1,000	50 30	Furniture	1 1	\$40,000
Grapes 500	30	Jewelry Leather goods	3 4 4 4	
	20 30	Planing mills	2 8	
Pears 7,000	200	Manufacture	d Output.	
Peaches 30,000 Plums 6,000	800 60	Flour (homele)	_	Quantity.
Irish potatoes 6,600,000 Sweet potatoes 500	132,000	Flour (barrels)		8,000
10 ποσι μυτατυσ 5			Trees and	Vines
Prunes 1,200	25 30	Number of Fruit 7 Bearing.	Non-bearin	g. Total.
Prunes 1,200 Quinces 500	30 5	Apple 15.000	Non-bearin 8.000	g. Total. 23,000
Prunes 1,200 Quinces 500 Raspberries 7,000 Strawberries 1,500	30 5 . 5 00	Apple 15,000 Apricot 500 Cherry 750	Non-bearin 8,000 250	g. Total. 23,000 750
Prunes 1,200 Quinces 500	30 5	Apple	Non-bearin 8,000 250 350 100	res. Total. 23,000 750 1,100 250
Prunes 1,200 Quinces 500 Raspberries 7,000 Strawberries 1,500 Tomatoes 50,000	30 5 500 150 1,250	Apple 15,000 Apricot 500 Cherry 750 Nectarine 150 Peach 2,000	Non-bearin 8,000 250 350 100 2,000	Total. 23,000 750 1,100 250 4,000
Prunes 1,200 Quinces 500 Raspberries 7,000 Strawberries 1,500	30 5 500 150	Bearing	Non-bearin 8,000 250 350 100 2,000 250 150	23,000 750 1,100 250 4,000 750 550
Prunes 1,200 Quinces 500 Raspberries 7,000 Strawberries 1,500 Tomatoes 50,000 Totals 6,942,900 Dairy Industry. Production.	30 5 500 150 1,250 \$140,810	Apple 15,000 Apricot 5000 Cherry 750 Nectarine 150 Peach 2,000 Plum 400 Prune 750	Non-bearin 8,000 250 350 100 2,000 250 150 350	23,000 750 1,100 250 4,000 750 550
Prunes	30 5 500 1500 1,250 \$140,310	Apple 15,000 Apricot 5000 Cherry 750 Nectarine 150 Peach 2,000 Pear 500 Plum 400 Prune 750 Total fruit	Non-bearin 8,000 250 350 100 2,000 250 150 350	Total. 23,000 750 1,100 250 4,000 750 550 1,100 31,500
Prunes 1,200 Quinces 500 Raspberries 7,000 Strawberries 1,500 Tomatoes 50,000 Totals 6,942,900 Dairy Industry. Production. Butter (pounds) 500,000 Cheese (pounds 80,000 Creameries, 4.	\$140,310 Value. \$140,000	Bearing 15,000	Non-bearin 8,000 250 350 100 2,000 250 150 350	Total. 23,000 750 1,100 250 4,000 750 550 1,100 31,500 150
Prunes 1,200 Quinces 500 Raspberries 7,000 Strawberries 1,500 Tomatoes 50,000 Totals 6,942,900 Dairy Industry. Production. Butter (pounds) 500,000 Cheese (pounds 80,000 Creameries, 4. Poultry and Eggs.	\$140,310 Value. \$140,000	Apple 15,000 Apricot 5000 Cherry 750 Nectarine 150 Peach 2,000 Pear 500 Plum 400 Prune 750 Total fruit Walnut 100 Grapevines 250 Acres—	Non-bearin 8,000 250 350 100 2,000 250 150 350	Total. 23,000 750 1,100 250 4,000 750 1,100 31,500 400
Prunes 1,200 Quinces 500 Raspberries 7,000 Strawberries 1,500 Tomatoes 50,000 Dairy Industry. Production. Butter (pounds) 500,000 Cheese (pounds 80,000 Creameries, 4. Poultry and Eggs.	\$0 5 500 150 1,250 \$140,310 \$140,000 \$140,000	Apple 15,000 Apricot 5000 Cherry 750 Nectarine 150 Peach 2,000 Pear 500 Plum 400 Prune 750 Total fruit Walnut 100 Grapevines 250 Acres—	Non-bearin 8,000 250 350 100 2,000 2,000 350 150 150	23,000 23,000 1,100 250 4,000 750 550 1,100 31,500 150 400
Prunes 1,200 Quinces 500 Raspberries 7,000 Strawberries 1,500 Tomatoes 50,000 Totals 6,942,900 Dairy Industry. Production. 500,000 Cheese (pounds 80,000 Creameries, 4. Poultry and Eggs. Chickens 1,500 Ducks 20	\$140,000 Value. \$1,250 \$140,000 \$140,000	Bearing 15,000 Apricot 5000 Cherry 750 Nectarine 150 Peach 2,000 Pear 500 Plum 400 Prune 750	Non-bearin 8,000 250 350 100 2,000 250 350 150 350 150 10 10	23,000 23,000 250 1,100 250 4,000 750 550 1,100 31,500 400 25 30 25
Prunes 1,200 Quinces 500 Raspberries 7,000 Strawberries 1,500 Tomatoes 50,000 Dairy Industry. Production. 500,000 Cheese (pounds 80,000 Creameries, 4. Poultry and Eggs. Chickens 1,500 Ducks 20 Geese 10	\$140,310 Value. \$140,000 Value. \$140,000 200 240	Apple	Non-bearin 8,000 250 350 100 2,000 250 150 350 	75tal. 23,000 255 13
Prunes 1,200 Quinces 500 Quinces 7,000 Strawberries 7,500 Tomatoes 50,000 Totals 6,942,900 Dairy Industry. Production. 500,000 Cheese (pounds 80,000 Creameries, 4. Poultry and Eggs. Chickens 1,500 Ducks 20 Geese 10 Turkeys 500	\$140,310 Value. \$1,250 \$140,310 Value. \$1,250 \$140,000 Value. \$9,000 200 240 12,000	Apple	Non-bearin 8,000 250 350 100 2,000 250 350 150 150 150 10 10 10 10 10 10 10 10 10 10 10 10 10	23,000 23,000 1,100 250 4,000 750 1,100 31,500 150 400 25 30 25 13
Prunes 1,200 Quinces 500 Raspberries 7,000 Strawberries 1,500 Tomatoes 50,000 Dairy Industry. Production. 500,000 Cheese (pounds 80,000 Creameries, 4. Poultry and Eggs. Chickens 1,500 Ducks 20 Geese 10	\$140,310 Value. \$140,000 Value. \$140,000 200 240	Apple	Non-bearin 8,000 250 350 100 2,000 250 350 150 150 150 150 150 150 150 150 150 1	Total. 23,000 750 1,100 250 4,000 750 1,100 31,500 400 25 30 25 13 8 5 7
Prunes 1,200 Quinces 500 Quinces 7,000 Strawberries 7,500 Tomatoes 50,000 Totals 6,942,900 Dairy Industry. Production. 500,000 Cheese (pounds 80,000 Creameries, 4. Poultry and Eggs. Poisen. 1,500 Ducks 20 Geese 10 Turkeys 500	\$140,310 Value. \$1,250 \$140,310 Value. \$1,250 \$140,000 Value. \$9,000 200 240 12,000	Apple	Non-bearin 8,000 250 350 100 2,000 250 350 150 150 150 10 10 10 10 10 10 10 10 10 10 10 10 10	Total. 23,000 750 1,100 250 4,000 750 1,100 31,500 400 25 30 25 13 8 5 7

LOS ANGELES COUNTY.

In wealth, population, and resources Los Angeles is the most important county in southern California. There are two rivers in the county, the Los Angeles and the San Gabriel. During a large part of the year these are dry beds of sand, what little water they contain finding its way through the porous sand to the bedrock. In the winter they are dangerous streams. The Los Angeles River rises in the western part of the San Fernando Valley, about 12 miles northwest of the city, and flows easterly 18 miles to the Los Angeles pass. Its stream is fed all along by springs. Two other "rivers," the Pacoima and the Tejunga, join it in the San Fernando Valley. Turning south, it flows through the Los Angeles Pass, and on through the city.

Los Angeles County embraces within its limits a great variety of scenery and climate. Within its territory may be found the climate and scenery of almost every part of the State, from the cool and breezy seashore to the warm inland plains and bracing mountain tops. Of the area of the county, about four fifths is capable of cultivation, the remainder being mountainous. The shore line is 85 miles in length. Nine tenths of the population is within thirty miles of the occur.

Nine tenths of the population is within thirty miles of the ocean.

The marvelous growth which has been made during the past few years may be seen from the statement that, within the space of twenty-four years, the population of the county has increased more than tenfold, and

the assessed valuation of property in proportion.

The chief industry is horticulture, the list of products including everything that can be grown in the State, and most everything that can be raised in semitropic countries. The area of land devoted to horticultural purposes is being rapidly extended as the large tracts are subdivided and improved.

The county is well provided with transportation facilities. A dozen lines of railroad center in Los Angeles City, tapping almost every section of the county, while coast steamships call regularly at the leading

seaports.

Perhaps the most important enterprise for Los Angeles is the big breakwater by the Federal Government at San Pedro. By means of this breakwater the depth of water over the bar will be so increased as to permit ocean-going vessels to come to the wharves, and Los Angeles will then be able to compete for its share of the growing Oriental trade. Other shipping points of the county are Port Los Angeles, near Santa Monica, and Redondo.

The San Gabriel Valley, a choice section of Los Angeles County, has the Sierra Madre Range on the north. The mountains are grand and precipitous, inclosing the valley like a wall. This valley is the best known of any portion of southern California. Even before there was any "boom" here worthy of mention, lands in the valley commanded a comparatively high price. As with most attractive sections, the level-headed mission fathers discovered its advantages, and founded the San Gabriel Mission—whose church is still in good preservation—in 1771. Now railroads traverse the valley, and the land is rapidly being trans-

formed into a succession of small homes and thriving little cities. The valley contains 100 square miles of territory. The San Gabriel contains some of the choicest fruit lands in southern California, and is largely devoted to the raising of oranges and lemons, as well as deciduous fruits.

Pasadena, a beautiful city, is located at the foot of the Sierra Madre Range, about seven miles from Los Angeles. Within twenty years Pasadena has grown from a sheep pasture to a city of beautiful homes, with a world-wide reputation. Other settlements in the valley are Alhambra, Monrovia, Duarte, and Azusa, all of which are mainly supported by horticulture.

Adjoining San Gabriel Valley on the east is Pomona Valley. Irrigation is cheaply supplied to this section from the San Antonio River. The soil and climate are particularly adapted to the culture of citrus fruits. Railroad facilities are very good, and increasing, which has caused the valley to settle up rapidly. It contains a number of flourishing towns, the chief of which is Pomona, one of the most thriving cities of southern California. For miles in every direction around Pomona extend continuous orchards of oranges, lemons, apricots, peaches, prunes, olives, and other fruit trees, a specialty being made of olive culture.

Other important sections of the county are Los Nietos Valley, a well-watered district, noted for corn, alfalfa, and dairy products; the stretch of country between Los Angeles City and the ocean; San Fernando Valley, north of Los Angeles, in which a large amount of fine wheat is raised; and Antelope Valley, an elevated region in the northern part of the county, where land is cheap and, with water, very productive.

Los Angeles enjoys railroad competition in the shape of three transcontinental lines. The Pacific Coast Steamship Company runs vessels every few days from Los Angeles County ports to San Francisco and San Diego.

There is a great variety of soil in Los Angeles County, varying from

light sandy loam to heavy adobe.

A mistaken idea prevails to some extent that farming is only carried on in Los Angeles County by means of irrigation, and that without it crops would be a failure. For grain and winter crops irrigation is not employed. Corn is irrigated in some localities, being a summer crop, but is successfully grown in many places without irrigation. Upon some lands, after a crop raised without irrigation has been harvested, another is raised by means of irrigation. On irrigated land two or three crops a year are frequently raised. With an artificial supply of water, the farmer is rendered independent of the season's rain, while the product of his land is enormously increased.

The development of the horticultural industry during the past few years has been remarkable. The most important horticultural product is the orange. Besides the orange and lemon, the principal fruits raised are the almond, fig, prune, apricot, walnut, peach, pear, and berries.

Deciduous fruits are shipped fresh, canned, dried, and crystallized.

An active demand for our dried fruits has grown up in Europe.

Alfalfa, which is largely grown for hay, is a most remarkable forage plant. It is cut from three to six times a year. Large quantities of wheat and barley are raised. Corn sometimes grows to a height of

twenty feet. Pumpkins have been raised weighing over 400 pounds. There is a beet sugar factory at Alamitos. Los Angeles honey is celebrated all over the country. In the neighborhood of Los Angeles calla lilies, tuberoses, carnations, and other flowers are grown by the acre. Hundreds of acres are devoted to the cultivation of the celery, which is shipped East by the train load. Winter vegetables, such as string beans, tomatoes, green peas, and chili peppers, constitute a big business.

Until only a few years ago, most of the butter consumed in southern California was imported from the North and East. This is no longer the case, a number of creameries having been established during the

past few years, with most successful results.

Poultry does well in Los Angeles County when it is given the same attention it receives in the East. Eggs always command a good price.

Ostriches are raised for their plumes, and the industry is profitable.

There is a large ostrich farm at South Pasadena.

Among the game found in the country are wild geese, ducks, snipe, rabbits, squirrels, foxes, deer, wildcats, California lions, and bear, the

latter being found in the northern part of the county.

The angler finds plenty of trout in the mountain canyons. In the ocean there is excellent fishing, both with line and seine, and some remarkable catches are made. The vellowtail, ranging from 15 to 80 pounds, is very numerous in the waters of the Pacific. The tuna attains a length of five feet or more, and a weight of from 100 pounds upward. "Jewfish" are sometimes caught weighing 400 pounds.

Although Los Angeles County is chiefly noted as a horticultural section, its mineral wealth is by no means unimportant. Including petroleum, it ranks fourth in mineral products among the counties, and is the only one which leads in five mineral products. Los Angeles is the center of a number of rich mineral fields in southern California

which annually produce many millions of dollars.

One of the most remarkable features of development in Los Angeles County has been the greatly increased production of petroleum. For over twenty-five years petroleum has been produced on a limited scale in Los Angeles and Ventura counties, but it is only within the past few years that the industry has assumed great importance. The oil produced in California differs from that of the Eastern states, being of a heavier grade, with an asphaltum base, and it is used almost exclusively for fuel. It has been adopted by most of the leading factories of this section, and is used largely by the railroads. A careful test made with a locomotive showed that oil at \$1 a barrel is equivalent to coal at \$4 a ton.

The school facilities of Los Angeles are especially good. Besides the complete system of public schools, private schools and colleges abound in Los Angeles, Pasadena, and other towns. Many Eastern people avail themselves of the opportunity to send children with a tendency to weak lungs to a country where plenty of out-of-door exercise is a possibility every day in the year. Most of the leading religious denominations are represented, not only by scores of churches, but also by one or more religious colleges. The work of the schools is further supplemented by an army of specialists in music, painting, and every department of art. The Chautauqua has an active membership of nearly a thousand, and meets annually at Long Beach. Lectures and other entertainments, by

home and foreign talent, are of almost daily occurrence. The educational and social facilities afforded by Los Angeles are, in the widest sense of the word, unsurpassed. Public libraries are numerous and well stocked with the latest works.

Catalina Island is a most attractive and popular resort in the Pacific, just off the coast of Los Angeles County. Between this resort and Los Angeles City there is a most excellent rail and boat service.

STATISTICS OF LOS ANGELES COUNTY, 1909-10.

General Statistics.		Fruits, Ve	getables, Etc	•
Area 3,880 square miles, or 2,483	3,200 acres.		Total	
Number of farms	10,322	Green-	Production. Pounds.	Value.
Number of acres assessed	1,025,109	Apples		\$71,802
Value of country real estate	\$72,090,225	Apricots	4,900,000	98,000
Of city and town lots	1251.712.990	Asparagus	8,000	800
Of improvements thereon	110.092.830	Blackberries Beans	1,114,285	66,857
Of personal property	\$82,226,104	Beets	345,000	46,200 3,450
Expended on roads, last fiscal	523,511,554	Cabbage		68,300
year	\$645,275	Celery	910,000	18,200
Expended for bridges, last fis-	415 550	Cauliflower	4,987,000	99,740
Number of miles of public roads	\$47,772 4,220	Corn (dozen) Cherries	287,000 21.800	43,375 1,090
Road levy per \$100, 1910	60c	Figs		25,975
Value of county buildings	\$2,349,846	Gooseberries	41,000	2,460
Irrigating ditches—miles, 1,143;	erez ene	Grapes	37,500,000	450,000
cost	\$587,000	Grape fruit (boxes)		49,500
miles, 617.520; assessed value	\$8,889,005	Lemons (boxes) Loganberries		2,500,000 22,308
Railroads, electric — miles, 567; assessed value		Nectarines		1,654
Electric nower plants — 2: 22-	\$15,761,125	Onions	260,000	9,100
Electric power plants — 8; assessed value	\$1,938,658	Oranges (boxes)		7,500,000
Electric power lines-miles,	360.6.61	Pears		20,750 76,600
1,157.50; assessed value	\$4,110,020 97,778	Peas		68,000
Number of acres irrigated	21,110	Persimmons		467
Cereal Products and Hay	у.	Plums	2.100.000	42,000
Tons of 2,000 pounds.		Irish potatoes		115,050
Acres. Bushels.		Sweet potatoes Prunes		25,335 20,000
Wheat 31,326 626,520 Barley 58,000 1,288,889	\$601,472 800,400	Quinces		2,465
Barley 58,000 1,288,889 Corn 14,000 270,000	266,490	Raspberries	108.570	9,770
	41 640 040	Strawberries	10,842,000	433 ,680
Total cereals.103,326 2,185,409	\$1,668,362	Tomatoes	12,500,000	125,000
Alfalfa hay 21,000 105,000	Value. \$945,000	[pounds	106.183.305	
Grain hay116,600 174,900	2,011,350	Totals { boxes	4,018,000	\$12,013,928
Total hay137,600 279,900	\$2,956,350	dozens	-	77.3
1000 1000	44,000,000	Dried-	Pounds.	Value.
Number of Fruit Trees and		Almonds		\$31,680 60,750
Bearing. Non-beari		Beans	18,300,000	777,750
Apple 141,070 20,365 Apricot 192,876 21,690	161,432 214,566	Onions	1,700,000	51,000
Cherry 3,289 830	4,119	Peaches		70,380
Fig 85,500 2,100	88,700	Peanuts		390 9,025
Lemon 786,360 62,730 Nectarine 3,286 600	849,090	Raisins		32,766
Oliva 242 880 91 683	364,567	Walnuts		1,568,000
Orange2,210,123 216,750 Peach286,727 3,985	2 426 873	Totals	32 674 000	\$2,601,741
Pear 12,930 887	73,812	Canned—	Cases.	Value.
Plum 51,860 830	52,690	Apples		\$1,900
Prune 52,800 700 Quince 5,630 210		Apricots	18,600	184,080
- 0,000 Z10	0,040	Blackberries	1,255	2,600
Total fruit4,236,431 353,353		Beans	11,500 180	23,000 450
Almond 150,600 890		Pears		134,57 0
Chestnut 250 110		Peaches	65,570	191 ,105
Pecan 1,800	1,800 392,112	Plums	30,690	109,020
Other nuts 290,600		Strawberries Tomatoes	7,500 87,160	27,000 258,150
	-	Chilis	1,000	3,600
Total nut 753,550 82,812	e seek a seek	Pumpkin		5,400
Grapevines5,693,000 Berries, acres. 3,912		Totals	267,575	\$940,875

STATISTICS OF LOS ANGELES COUNTY, 1909-10-Continued.

Wines, Brandies, Etc.	Fish Industry.
Gallons. Value.	Pounds. Value.
Dry wines 1,200,000 \$300,00 Sweet wines 1,486,000 445,80	
Beer (barrels) 216,444 1,455,55	
Brandy 140,000 280,00	Number of Value of
Vinegar 47,000 9,40	No. Employees. Products.
Number of wineries, 86; number of brew	Bookbinderies 18 260 \$638,700
eries, 3. Dairy Industry.	Paper boxes 5 230 475,000 Wood boxes 4 120 265,000
Production Value	Brick 14 962 1,308,395
Butter (pounds) 4,962,000 \$1,488,60 Cheese (pounds) 998,000 174,65 Creameries, 19; skimming stations, 9.	Brooms 3 35 105,600
Cheese (pounds) 998,000 174,65	
Creameries, 19; skimming stations, 9.	Cigars 67 324 650,000
Live Stock Industry.	Clothing
Number. Value.	Coffee, spices, etc 13 110 886,000
Cattle—Beef	Confectionery 73 910 1,982,680 Cooper-shops 3 52 101,260
Stock	Crackers 3 388 942,345
Thoroughbred—	Electrical supplies 22 306 982 000
Guernsey 310 31,00) Flouring and cereal
Herefords 250 25,00 Holsteins 400 40,00	food mills 7 253 3,221,057 Foundries and iron
Holsteins 400 40,00 Jersey 375 37,50	works 29 1.800 5.680.000
Shorthorns 150 11,25	Furniture 23 200 620,000
Calves 12,200 146,40	Jewelry
Swine	
Horses—Thoroughbred 1,080 263,00 Common 30,000 122,00	Meat products—
Colts 14,000 281,00) Hides 587,991
Jacks and jennies 350 3,50	Lard 864,595
Mules	Meat packed 5 770 5,314,949 Tallow 135,000
Sheep	
Angora goats 680 6.80	$1 Paper \dots 1 15 50,000$
Common goats 4,300 21,50) Pickles 7 179 455,000
Total stock 228,403 \$6,089,48	Pickled olives 4 86 240,000
	Sewer pipe 3 150 382,000
	' Planing mills 61 2,100 7,327,100
Poultry and Eggs.	Potteries 8 153 270,000 Salt 3 76 100,700
Chickens 81,733 \$588,47	G F 010 01/F00
Chickens	Artificial stone 4 69 180.000
Geese 2,900 34,80	Granite
Turkeys 7.800 234.00) Syrups and extracts. 9 07 210,000
Eggs 3,836,655 1,150,99	Tiling 1 40 75,000
Total value \$2,060,47	Tin and galvanized
	iron
Forest Products.	
Timber Lands — Cedar, oak, pine, mes quite, and redwood, 587,520 acres, mostly	Wood turning and
in forest reserve.	carving 3 21 30,000
Fuel, wood (cords) Amount. Value. \$96,00	Manufactured Output.
Power used for mills and manufactorie	Quantite
in county—Steam (number), 218; electrica	Brick (thousand) 141,224
(number), 782.	
Miscellaneous Products.	Cigars (thousand) 10,000 Crackers (pounds) 8,000,000
Pounds. Value.	Flour (barrels)
Bees (hives), number. 62,000 \$196,00	Hides (pounds) 4,231,009
Beeswax 26,100 6,52	Lard (pounds) 8,648,603
Flowers and plants (acres) 650 659,31	Meat packed (pounds) 65,787,941 Tallow (barrels) 5,987
Honey 33.000 1.98	
Alfalfa seed 30,000 5,00) Pickles (gallons) 910,000
Garden seed 2,780 11,75	
Sugar beets (tons) 60,000 300,00	Soap (pounds) 8,255,000

MADERA COUNTY.

Madera County is in the center of the San Joaquin Valley, bounded on the north by Merced and Mariposa counties, on the southeast and west by Fresno County. The eastern portion of the county extends far up in the Sierra Nevada Mountains. From the foothills to the San Joaquin River, a distance of about forty miles, the land is level and adapted to all kinds of agricultural pursuits. The melting snows of the mountains flow through numerous small creeks, into the San Joaquin River, or serve to supply the farming section with water for irrigation. The higher mountains are heavily timbered with valuable wood, principally sugar and white pine. Lumbering, stock raising. quarrying, mining, fruit growing, and farming are the principal indus-There are two large wineries in the county. All kinds of fruit yield heavily on the irrigated lands. Minerals are iron, copper, gold, and silver. The power plant of the San Joaquin Light and Power Company is near North Fork, this county. The granite quarries at Knowles furnish employment to about 300 men. The product is said to be the best in the State. San Francisco post office and many other public and business buildings in various cities of the State are built of the granite from these quarries.

The county seat is Madera, and the other towns of the county are Raymond, Grub Gulch, Brenda, North Fork, Sugar Pine, O'Neals.

STATISTICS OF MADERA COUNTY, 1909-10.

Gold, Coarse Gold, Fresno Flats, Minturn, and Knowles.

	214	41191109	OF MAD	ERA COUNTI, 1909-10.		
G	eneral St	atistics.		Fruits, Vegetab	les, Etc.	
Area 2,200 sque	are miles	s. or 1,408.	000 acres.	_	Total	
Value of count			\$5.906.065		roduction. Pounds.	Value.
Of improvemen			\$628,870	Apples	500.000	\$12.500
Of city and toy			\$355,940	Olives	130,000	3,000
Of improvemen			\$301,990	O11408	150,000	0,000
Of personal pr	operty		\$1,480,500	Totals	630,000	\$15.500
Total value of			\$8,673,620	Dried	Pounds.	Value.
Expended on 1	roads, la	st fiscal		Almonds	5,000	600
year			\$25,309	Apricots	240,000	19,200
Expended for			** ***	Peaches	900,000	47,250
_ cal year			\$9,444			2412.222
Road levy per			35c	Totals 3	,645,000	\$142,050
Irrigating ditch			#4E 000			
cost		77.4	\$45,000	Cereal Products	and Hav.	
Railroads, stea			\$130,505	Tons of 2,000 p		
Electric power			4100,000	Agres.	Tons.	Value.
sessed value			\$106,570	Wheat100,000	11.000	\$352,000
Electric power	lines (m	iles)	29	Barley100.000	31,000	527,000
	•	-		Oats 7.000	2,000	46.000
Number of	Fruit T	rees and	Vines.	Corn 250	330	11.880
_	Bearing.	Non-bearin				
Apple	11,000		11,000	Total cereals257,250	44,330	\$936,8 80
Apricot	25,000	* * * * * * * * * *	25,000	Alfalfa hay 10,000	45,000	\$400.000
Fig	1,500	1,000	2,500	Grain hay 4,000	6,000	72,000
Lemon	150	1,000	1,500	Grain nay 1,000	0,000	12,000
Olive	6,500	3,500	10,000	Total hay 14,000	51,000	\$472,000
Orange	70,000	1,300	1,900	10001 1103 1111 11,000	01,000	4112,000
Peach Quince	25	15,000	85,000 25		_	
Other kinds	10		10	Wines, Brandie	es, Etc.	
Other kinds		•••••	10		Gallons.	Value.
Total fruit	114.785	21.800	136,935	Sweet wines 1		\$375,000
Almond	550	,	550	Brandy	10,000	20,000
Walnut	50	• • • • • • •	50	Number of wineries, 2;	number	of distil-
***************************************				leries, 2.		
Total nut	600		600	Dairy Indu	•	
Grapevines,	000		000		oduction.	Value.
acres	6,960	1,675	8.635	Butter (pounds) 1,	,000,000	\$250 ,000
Berries, acres.	100	-,	100	Creameries, 1.		
				•		

STATISTICS OF MADERA COUNTY, 1909-18-Continued.

Live Stock	Industry.		Forest Products.	
	Number.	Value.	Amount.	Value.
Cattle-Beef	12.000	\$360,000	Area of timber lands	
Stock	50,000	1,000,099		
Dairy Cows-Graded	2,500	100.000	Cedar (acres) 4,000	
Thoroughbred-				\$1,875,000
Hoisteins	900	45.000	Sawmills (number) 3	1,200,000
Calves	10.000	60.000	Lumber (feet)15,000,000	1,140,000
Swine	10,000	40.000	Sash and door fac-	
Horses-Thoroughbred	100	20,000	tories (number) 1	100,000
Common	4.900	392,000		
Colts	1.300	32,500	Total value	\$4.315.000
Mules	3.100	310,000	Power used for mills and manu	
Sheep	10.000	30.000	in county—Steam (number), 4:	
Lambs	4.000	4.000	(number), 1; water (number), 1.	electrical
LALINIOS	1,000	1,000	(number), 1, water (number), 1.	
Total stock	108,800	\$2,393,500	Miscellaneous Products.	
			Pounds.	Value.
Wool (pounds)	100,000	10,000	. Bees (hives), number. 915	\$2,755
			Honey 50,000	5, 0 00
Poultry and	d Eggs.		Manufactories.	
	Donen.	· Value.	Number of	Value of
Chickens	9,000	\$27,000	No. Employees.	
Ducks	100	600	Wood boxes 80	\$150,000
Turkeys	900		Granite 300	500,000
Luikeja	500	20,000	Saw and planing mills 900	2,000,000
Total value		\$45 600	Sash and door factories. 125	300,000

MERCED COUNTY.

Merced County possesses as good land as is to be found anywhere in the San Joaquin Valley for fruit and alfalfa, but its development has been retarded by large land holdings, and grain growing has been the principal occupation. Within recent years, however, thousands of acres have been subdivided into colony lots and placed on the market, and vigorous advertising campaigns organized. This, of course, means immigration, development, and prosperity.

The good roads movement is receiving its due amount of consideration in the county, and the different supervisorial districts have built several miles of new roads, with the expectation of extending them as fast as possible. The county is particularly fortunate in being able to secure a high grade of road material from the near by rock crusher at Jasper, on the line of the Yosemite Valley Railroad, and at reasonable cost.

The new Yosemite Valley Railroad has its terminal facilities in the city of Merced, which include a general office building and depot, round-house, turntable, and switch yards. It is a standard gauge steam road. The line connects at Merced with the trunk lines of the Santa Fe and Southern Pacific, and extends to El Portal at the Yosemite National Park line, a distance of 78 miles. It is a picturesque route, following the course of the Merced River Canvon.

The road was built to handle the immense tourist travel to and from the celebrated Yosemite Valley, and Merced has become known as the gateway to Yosemite, on account of the thousands of tourists who pass through annually. Leaving the little city of Merced, the traveler is soon on the open plains, headed for the snow-capped Sierras that arise abruptly to the eastward. We get our first view of the beautiful Merced River and cross it just before reaching Hopeton. Another stretch of tangent track and a curve or two, and we round the outskirts of the old town of Snelling. This is the rich farming district of the Merced, as is shown by the herds of cattle and hogs, the orchards, the fields of alfalfa and Indian corn. The next stop is Merced Falls. Here we see a broad, smooth expanse of the river, and hear the roar as the water rolls over the falls.

On leaving this point we enter the Merced Canyon, and the ascent through the narrow gorge has commenced. We begin at once to notice the signs of the mining days of old, for the Merced was famous in that respect, and, for that matter, still has gold and other minerals along its course which are being actively mined. The Exchequer power plant and dam is the next mark of modern improvement, and just beyond a short distance is Pleasant Valley, so named from its surroundings. A bend in the river is passed, and we again cross the river. Of the many interesting sights in the canyon, the several waterfalls or dams are sure to attract attention. Bagby may be called the halfway station, and this pretty little mountain retreat, with its broad sheet of water pouring ever the dam, the stamp mill and the power plant, has some history that takes us back to the early days when General Fremont erected here a stamp mill and christened it Benton Mill in honor of Senator Benton of

Missouri. A wagon bridge also spans the river here on the old road that connects Coulterville and Mariposa.

We now begin to realize more fully that we are penetrating deeper and deeper into the mountains, for the canyon walls shut us in completely and tower skyward, and we see nothing but huge mountain walls ahead and behind us. The track curves about each projecting abutment with the exact precision of the river. The water rushes over great bowlders and forms into many rapids and cataracts. Along here we see the mouth of the North and South Fork tributaries empty their rushing torrents from the distant snow-capped mountains and lakes and wonder at the awful chasms whence they issue.

We round another curve, completing almost a full circle of what is known as the "Hogback," when plainly up the canyon ahead of us, on the face of the mountain wall, we see the filmy sheet of water called the Chinquapin Fall, and opposite which and far below on the river's edge is El Portal, the end of the first part of the journey, and the commencement of the exciting and romantic stage ride of fourteen miles through the Yosemite Park. Away up in the mountains, an altitude of nearly two thousand feet, we find this picturesque, secluded resort, a fine large hotel with wide verandas, shut in on all sides by the mountains, with the wild rushing river before us. Here we may stop for rest and enjoyment, and proceed to Yosemite when we are ready to do so.

The stage ride through the Yosemite Park from El Portal is one of the principal features of the entire trip, for its beauty and grandeur are unsurpassed by any other road of equal length in America. The road continues along the ever-present river to the Portal of Yosemite, and the traveler is in a measure prepared for the sublimities of California's Wonderland, which burst on the view as the stages halt on the bank of the river for the first general view of the valley, where El Capitan rises abruptly three thousand three hundred feet high, the mighty guardian of the valley, with beautiful Bridal Veil Fall to the right with its nine hundred and forty feet of mist and rainbow effect. Ere we reach our hotel or camp, we have received our first general impression of the great valley. Its beauty and grandeur grow upon you. It is indescribable; it must be seen to be appreciated.

The creamery industry has developed so rapidly that Merced County

is now near the head of the list in the production of cream.

Merced County excels in the quantity and quality of its sweet potatoes. The fig industry is yet in its infancy, but it has been proven that the soil and climatic conditions are very favorable, for the Government expert has pronounced this soil best for figs and olives. Also the peaches and grapes of Merced County have a State reputation.

The flour mills are producing an extra good quality of flour, so are

rapidly increasing their outputs.

Merced County is located about the center of the State and also about the center of the San Joaquin Valley. Numerous rivers and creeks traverse the county, furnishing a natural water supply, while the county's system of artificial irrigation is one of the finest in the world. It has two systems, one on the east side and the other on the west side of the San Joaquin River. The main canal on the east side is 65 feet wide at the bottom and 100 feet wide on top and 10 feet deep, the carrying capacity being 4,000 cubic feet per second. The length of the canal

is about 50 miles, with something over 250 miles of subsidiary canals built as a part of the system, and these are constantly being added to as the demands require.

The canal on the west side is 40 miles in length with over 100 miles of lateral ditches, literally making an otherwise dry section "blossom as a rose." Lake Yosemite, the reservoir into which the canal empties, covers about a square mile, with the average depth of 36 feet.

STATISTICS OF MERCED COUNTY, 1909-10.

	1 0		OF MER	Deute Teet		
	eneral S			Fruits, Vegeta		
Area 2,000 squa				1	Total Production.	
Number of farm	ns		3,250 1,164,958	Green	Pounds.	Value.
Number of acre Value of country	rv reale	state :	11.466.520	Apples	53,225	\$793
Of improvemen	ts there	on	\$1,159,860	Apricots	98,250	1,473
Of city and tow	m lots .		\$647,595	Asparagus	5,100 165,350	255 8,267
Of improvemen			\$997.020	Beans	365,250	18,262
Of personal pro Total value of	perty .		\$3,046,164	Beets	67,000	670
Expended on ro			17,444,180	Cabbage	110.150	1,101
last fiscal yea	ir	bridges,	\$79,019	Coult do	13,250	265
Number of mile	es of pub	lic roads	1,090	Cam	309 000	1,684 6,040
Road levy per	\$ 100, 1 91	0	99C	Cauliflower Corn Cantaloupes Figs Grapes Grape fruit Lemons (boxes) Loganberries Nectarines	25.750	1,802
Value of count	y buildi	ngs	\$ 221,250	Figs	78,340	783
Irrigating ditch			\$342,520	Grapes	7,967,000	63,818
Railroads, stea	m—mile	R. 154.12:	\$0 12,020	Grape fruit	1,400	52
assessed valu	ı e		\$3,396,825	Lemons (boxes)	1,510 172,360 5,140	3,020
Electric power sessed value Electric power	plants -	—1; as-		Nectarines	5 140	6,894 51
sessed value			\$40,430	Onions	28,350	566
18½; assessed	iines—n	mes,	\$3,700	Oranges (boxes)	2,000	3,000
Number of acr			160,500	Olives	105,250	2,105
				Pears	101,250	1,012
		s and Hay.	•	Peaches	41,260	11,089 824
To	ns of 2,000 Acres.	pounds. Bushels.	Value.	Persimmons	2,000	80
Wheat		149,000	\$93,423	Plums	107,250	1.072
Barley	. 85,425	1,390,000	600,480	Irish notatoes	630 100	6,301 197,760
Oats	. 15,340	244,960	117,580	Sweet potatoes1	2,360,000	197,760
Rye	. 6,100	23,833	14,872	Pumpkins	4,530,000	6,745 424
Corn Egyptian whea	. 3,525 t 2,000	44,643 25,000	31,250 17,500	Quinces	38,250 6,130	405
Egyptian whea	2,000	20,000	11,000	Strawberries	33,240	1,965
Total cereals.	.122,890	1,875,786	\$875,105	Tomatoes	115,700	578
	Acres	Tons.	Value.	Tomatoes (boxes)	70,000	24,500
Alfalfa hay	. 23,100	45,025	\$315,175	Watermelons	1,650,000	5,200
Grain hay	. 19,100	12,500	100,000	Chili peppers	1,500	75
Total hay	. 42,200	57,525	\$415,175	Totals3	1,906,520	\$378,931
Number of	Renit T	wase and '	7im aa			
		TCCD WITH	A IIICO.	Dried-	Pounds.	Value.
	Bearing.	Non-bearin	g. Total.	Almonds	83,450	\$11,200
Apple	Bearing.	Non-bearin	g. Total.	Almonds	83,450 1,000	\$11,200 70
Apricot	Bearing. 5,750 8,250	Non-bearin 2,450 9.125	g. Total. 8,200 17,375	Almonds	83,450 1,000 150,600	\$11,200 70 10,542
Apricot Cherry	Bearing. 5,750 8,250 520	Non-bearin 2,450 9,125	g. Total. 8,200 17,375 2,770	Almonds	83,450 1,000 150,600 210,300	\$11,200 70 10,542 14,721
Apricot Cherry Fig	Bearing. 5,750 8,250 520 10,935	Non-bearin 2,450 9,125 2,250 9,750	g. Total. 8,200 17,375 2,770 20,685	Almonds Apples Apricots Beans Figs Onions	83,450 1,000 150,600 210,300 504,200 120,100	\$11,200 70 10,542 14,721 20,168 1,800
Apricot Cherry Fig Lemon Nectarine	5,750 8,250 520 10,935 750 610	Non-bearin 2,450 9,125 2,250 9,750 350 50	g. Total. 8,200 17,375 2,770 20,685 1,100 660	Almonds Apples Apricots Beans Figs Onions Pears	83,450 1,000 150,600 210,300 504,200 120,100 2,350	\$11,200 70 10,542 14,721 20,168 1,800 164
Apricot Cherry Fig Lemon Nectarine Olive	Bearing. 5,750 8,250 520 10,935 750 610 4,100	Non-bearin 2,450 9,125 2,250 9,750 350 50 3,300	g. Total. 8,200 17,375 2,770 20,685 1,100 660 7,400	Almonds Apples Apricots Beans Figs Onions Pears	83,450 1,000 150,600 210,300 504,200 120,100 2,350	\$11,200 70 10,542 14,721 20,168 1,800 164 60,000
Apricot Cherry Fig Lemon Nectarine Olive Orange	Bearing. 5,750 8,250 520 10,935 750 610 4,100 2,825	Non-bearin 2,450 9,125 2,250 9,750 350 50 3,300 5,200	E. Total. 8,200 17,375 2,770 20,685 1,100 660 7,400 8,025	Almonds Apples Apricots Beans Figs Onions Pears Peaches Peanuts	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625	\$11,200 70 10,542 14,721 20,168 1,800 164 60,000
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach	Bearing. 5,750 8,250 10,935 750 610 4,100 2,825 148,441	Non-bearin 2,450 9,125 2,250 9,750 350 50 3,300 5,200 380,150	E. Total. 8,200 17,375 2,770 20,685 1,100 660 7,400 8,025 528,591	Almonds Apples Apricots Beans Figs Onions Pears Pears Pears Pears Peanuts Plums and prunes	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250	\$11,200 70 10,542 14,721 20,168 1,800 164 60,000 370 3,186
Apricot	Bearing. 5,750 8,250 10,935 750 610 4,100 2,825 148,441	Non-bearin 2,450 9,125 2,250 9,750 350 50 3,300 5,200 380,150 9,210	E. Total. 8,200 17,375 2,770 20,685 1,100 660 7,400 8,025 528,591 13,460	Almonds Apples Apricots Beans Figs Onions Pears Peaches Peanuts	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 3,500	\$11,200 70 10,542 14,721 20,168 1,800 164 60,000 3,70 3,186 455 437
Apricot	Bearing. 5,750 8,250 520 10,935 750 610 4,100 2,825	Non-bearin 2,450 9,125 2,250 9,750 350 50 3,300 5,200 380,150	E. Total. 8,200 17,375 2,770 20,685 1,100 660 7,400 8,025 528,591 13,460 358	Almonds Apples Apricots Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800	\$11,200 70 10,542 14,721 20,168 1,800 164 60,000 370 3,186 455
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Pear Plum Prune Quince	8-aring. 5,750 8,250 10,935 750 610 4,100 2,825 148,441 4,250 200 9,200 500	Non-bearin 2,450 9,125 2,250 9,750 350 50 3,300 5,200 380,150 9,210 108 2,150	z. Total. 8,200 17,375 2,770 20,685 1,100 7,400 8,025 528,591 13,460 358 11,350 1,250	Almonds Apples Apricots Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins Walnuts Pecans	83,450 1,000 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 3,500	\$11,200 10,542 14,721 20,168 1,800 164 60,000 370 3,186 455 437 71
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Pear Plum Prume	80 From 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Non-bearin 2,450 9,125 2,250 9,750 350 5,200 3,300 5,200 380,150 9,210 2,150	E. Total. 8,200 17,375 2,770 20,685 1,100 660 7,400 8,025 528,591 13,460 358	Almonds Apples Apricots Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins Walnuts	83,450 1,000 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 3,500	\$11,200 70 10,542 14,721 20,168 1,800 164 60,000 3,70 3,186 455 437
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Pear Plum Prune Quince Other kinds	Bearing. 5,750 8,250 8,250 10,935 750 610 4,100 2,825 148,441 4,250 2,00 9,200 500	Non-bearin 2, 450 9,125 2,250 9,750 350 5,200 380,150 9,210 108 2,150 750	s. Total. 8,200 17,375 2,770 20,680 1,100 660 7,400 8,025 528,591 13,460 1,250 1,250	Almonds Apples Apricots Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins Walnuts Pecans Totals	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 3,500 650	\$11,200 10,542 14,721 20,168 1,800 164 60,000 370 3,186 455 437 71
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Pear Plum Prune Quince Other kinds Total fruit.	Bearing. 5,750 8,250 8,250 10,935 750 610 4,100 2,825 148,441 4,250 200 9,200 500 196,431	Non-bearin 2,450 9,125 2,250 9,750 350 5,200 380,150 9,210 108 2,150 100 424,943	s. Total. 8,200 17,375 2,770 20,685 1,100 660 7,400 8,025 528,591 13,358 11,350 1,250 1,250 621,374	Almonds Apples Apricots Beans Figs Onions Pears Pears Peanuts Plums and prunes Raisins Walnuts Pecans Totals Dairy Ind	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 3,500 650	\$11,200 10,542 14,721 20,168 1,800 164 60,000 370 3,186 455 437 71
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Pear Plum Prune Quince Other kinds Total fruit. Almond	Bearing. 5,750 8,250 520 10,936 750 610 4,100 2,825 148,441 4,250 2,00 500 50 196,431 21,750 20	Non-bearin 2, 450 9,125 2,250 9,750 3,50 5,200 380,150 9,210 108 2,150 750 100 424,943 11,500	5. Total. 8,200 17,375 2,770 20,685 1,100 660 7,400 8,025 528,591 13,460 1,250 1,250 621,374 '33,250 45	Almonds Apples Apples Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins Walnuts Pecans Totals Dairy Ind Skimming stations 6	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 3,500 650 2,500,825 ustry.	\$11,200 70 10,542 14,721 20,168 1,800 164 60,000 370 3,186 455 487 71 \$123,184 Value. \$2,200,416
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Pear Plum Prune Quince Other kinds Total fruit Almond Chestnut Pecan	Bearing. 5,750 8,250 10,935 610 4,100 2,825 148,441 4,250 9,200 50 196,431 21,750 50	Non-bearin 2,450 9,125 2,250 5,750 3,300 5,200 380,150 9,210 750 100 424,943 11,500 25 50	\$\begin{align*} \text{Stall} & 8.200 & 17,375 & 2,770 & 20,685 & 1,100 & 660 & 7,400 & 8,025 & 528,591 & 13,460 & 1,250 & 1,250 & 150 & 621,374 & 33,250 & 455 & 100 & 1	Almonds Apples Apples Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins Walnuts Pecans Totals Dairy Ind Skimming stations 6	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 550 2,500,825 ustry. Production. 6,601,250 283,308	\$11,200 10,542 14,721 20,168 1,800 370 3,186 455 487 71 \$123,184 Value. \$2,200,416 94,436
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Pear Plum Prune Quince Other kinds Total fruit Almond Chestnut	8-aring 5,750 8,250 10,935 610 4,100 2,825 148,441 4,250 9,200 500 500 196,431 21,750	Non-bearin 2, 450 9,125 2,250 9,750 3,50 5,200 380,150 9,210 108 2,150 750 100 424,943 11,500	5. Total. 8,200 17,375 2,770 20,685 1,100 660 7,400 8,025 528,591 13,460 1,250 1,250 621,374 '33,250 45	Almonds Apples Apples Apricots Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins Walnuts Pecans Totals Dairy Ind No. 1 Skimming stations 6 Butter (pounds) Cheese (pounds)	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 3,500 650 2,500,825 ustry.	\$11,200 70 10,542 14,721 20,168 1,800 164 60,000 370 3,186 455 487 71 \$123,184 Value. \$2,200,416
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Pear Plum Prune Quince Other kinds Total fruit Almond Chestnut Pecan Walnut	Bearing. 5,750 8,250 10,935 750 10,935 750 4,100 4,100 4,250 9,200 500 196,431 21,750 950	Non-bearin 9,125 2,250 9,750 350 5,200 3,300 5,200 9,210 2,150 750 100 424,943 11,500 255 900	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	Almonds Apples Apples Apricots Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins Walnuts Pecans Totals Dairy Ind No. 1 Skimming stations 6 Butter (pounds) Cheese (pounds) Creameries, 2.	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 3,500 2,500,825 ustry. Production. 6,601,250 283,308 229,875	\$11,200 10,542 14,721 20,168 1,800 370 3,186 455 487 71 \$123,184 Value. \$2,200,416 94,436
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Pear Plum Prune Quince Other kinds Total fruit. Almond Chestnut Pecan Walnut Total nut	Bearing. 5,750 8,250 10,935 750 610 4,100 2,825 148,441 4,250 9,200 500 196,431 21,750 950 22,780	Non-bearin 9,125 2,250 9,750 3,300 5,200 380,150 9,210 100 424,943 11,500 900 12,475	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	Almonds Apples Apples Apricots Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins Walnuts Pecans Totals Dairy Ind No. 1 Skimming stations 6 Butter (pounds) Cheese (pounds)	83,450 1,000 150,600 210,300 201,200 120,100 2,350 1,200,000 4,625 106,250 113,800 650 2,500,825 ustry. Production. 6,601,250 283,308 229,875 lies, Etc.	\$11,200 70 10,542 14,721 20,168 1,800 164 60,000 370 3,186 455 487 71 \$123,184 Value. \$2,200,416 94,436 36,780
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Peach Peum Prune Quince Other kinds Total fruit Almond Chestnut Pecan Walnut Total nut Grapevines	Bearing. 5,750 8,250 10,935 750 610 4,100 2,825 148,441 4,250 200 9,500 196,431 21,750 20,750 22,780 22,780 2,781,900	Non-bearin 9,125 2,250 9,750 350 5,200 3,300 5,200 9,210 2,150 750 100 424,943 11,500 255 900	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	Almonds Apples Apples Apricots Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins Walnuts Pecans Totals Dairy Ind No. 1 Skimming stations 6 Butter (pounds) Creameries, 2. Wines, Brand	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 650 2,500,825 ustry. Production. 6,601,250 283,308 229,875 lies, Etc. Gallons.	\$11,200 10,542 14,721 20,168 1,800 370 3,186 455 437 71 \$123,184 Value. \$2,20,416 94,436 36,780 Value.
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Pear Plum Prune Quince Other kinds Total fruit Almond Chestnut Pecan Walnut Total nut Grapevines Berries (acres)	Bearing. 5,750 8,250 10,935 750 610 4,100 2,825 148,441 4,250 200 9,500 196,431 21,750 20,750 22,780 22,780 2,781,900	Non-bearin 9,125 2,250 9,750 3,300 5,200 380,150 9,210 100 424,943 11,500 900 12,475	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	Almonds Apples Apples Apricots Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins Walnuts Pecans Totals Dairy Ind No. 1 Skimming stations 6 Butter (pounds) Creameries, 2. Wines, Brand Dry wines (claret)	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 3,500 2,500,825 ustry. Production. 6,601,250 283,308 229,875 lies, Etc. Gallons. 61,400	\$11,200 10,542 14,721 20,168 1,800 370 3,186 455 437 71 \$123,184 Value. \$2,20,416 94,436 36,780 Value.
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Pear Plum Prune Quince Other kinds Total fruit Almond Chestnut Pecan Walnut Total nut Grapevines Berries (acres) Black Mammoth	Bearing. 5,750 8,250 10,935 750 10,935 750 4,100 4,100 2,100 9,200 500 196,431 21,750 950 22,780 2,781,900 40	Non-bearin 9,125 2,250 9,750 350 500 3,300 5,200 380,150 9,210 2,150 750 100 424,943 11,500 255 50 900 12,475 1,652,300	E Total. 8,200 17,375 2,770 20,685 1,100 7,400 8,025 528,591 13,460 1,350 1,350 1,250 1,350 1,250 1,850 35,245 4,434,200 70 725	Almonds Apples Apples Apples Beans Figs Onions Pears Pears Pears Peanuts Plums and prunes Raisins Walnuts Pecans Totals Dairy Ind No. 1 Skimming stations 6 Butter (pounds) Creameries, 2. Wines, Brand Dry wines (claret) Sweet wines (port)	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 500 2,500,825 ustry. Production. 6,601,250 283,308 229,875 lies, Etc. Gallons. 61,400 91,000	\$11,200 10,542 14,721 20,168 1,800 370 3,186 455 487 71 \$123,184 Value. \$2,200,416 94,436 36,780 Value. \$9,210 22,750
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Pear Plum Prune Quince Other kinds Total fruit. Almond Chestnut Pecan Walnut Total nut Grapevines Berries (acres) Black Mammoth Dew	Bearing. 5,750 8,250 10,935 750 6100 4,100 4,100 2,200 9,200 9,200 196,431 21,750 20 22,780 2,781,900 40 20 77	Non-bearing 2,450 9,125 2,250 5,00 5,200 380,150 9,210 100 424,943 11,500 50 900 12,475 1,652,300 30 5 2	\$\begin{align*} \begin{align*} \begi	Almonds Apples Apples Apples Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins Walnuts Pecans Totals Dairy Ind No. 1 Skimming stations 6 Butter (pounds) Creameries, 2 Wines, Brand Dry wines (claret) Sweet wines (port) Brandy	83,450 1,000 150,600 210,300 504,200 120,100 1,200,000 4,625 106,250 113,800 3,500 650 2,500,825 ustry. Production. 6,601,250 283,308 229,875 lies, Etc. Gallons. 61,400 91,000 23,000	\$11,200 10,542 14,721 20,168 1,800 370 3,186 455 437 71 \$123,184 Value. \$2,20,416 94,436 36,780 Value.
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Peach Pear Plum Prune Quince Other kinds Total fruit Almond Chestnut Pecan Walnut Total nut Grapevines Berries (acres) Black Mammoth Dew Logan	Bearing. 5,750 8,250 10,935 750 610 4,1000 2,825 148,441 4,250 200 9,500 500 196,431 21,750 22,780 22,780 2,781,900 20 7	Non-bearin 2,450 9,125 2,250 9,750 500 3,300 5,200 380,150 9,210 108 2,150 750 100 424,943 11,500 900 12,475 1,652,300	5. Total. 8,200 17,375 2,770 20,685 1,100 660 7,400 8,025 528,591 13,460 1,250 1,250 621,374 33,250 45 100 0,,850 35,245 4,434,200 70 25 9 45	Almonds Apples Apples Apricots Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins Walnuts Pecans Totals Dairy Ind No. 1 Skimming stations 6 Butter (pounds) Creameries, 2. Wines, Brand Dry wines (claret) Sweet wines (port) Brandy Vinegar	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 3,500 2,500,825 ustry. Production. 6,601,250 283,308 229,875 lies, Etc. Gallons. 61,400 91,000 23,000 2,000	\$11,200 70 10,542 14,721 20,168 1,800 370 3,186 455 437 71 \$123,184 Value. \$2,200,416 94,436 36,780 Value. \$9,210 22,750 22,750 20,000 400
Apricot Cherry Fig Lemon Nectarine Olive Orange Peach Pear Plum Prune Quince Other kinds Total fruit. Almond Chestnut Pecan Walnut Total nut Grapevines Berries (acres) Black Mammoth Dew	Bearing. 5,750 8,250 10,935 750 6100 4,100 4,100 2,200 9,200 9,200 196,431 21,750 20 22,780 2,781,900 40 20 77	Non-bearing 2,450 9,125 2,250 5,00 5,200 380,150 9,210 100 424,943 11,500 50 900 12,475 1,652,300 30 5 2	\$\begin{align*} \text{Stall} & 8.200 & 17,375 & 2,770 & 20,685 & 1,100 & 660 & 7,400 & 8,025 & 528,591 & 13,460 & 1,250 & 150	Almonds Apples Apples Apples Beans Figs Onions Pears Peaches Peanuts Plums and prunes Raisins Walnuts Pecans Totals Dairy Ind No. 1 Skimming stations 6 Butter (pounds) Creameries, 2 Wines, Brand Dry wines (claret) Sweet wines (port) Brandy	83,450 1,000 150,600 210,300 504,200 120,100 2,350 1,200,000 4,625 106,250 113,800 3,500 2,500,825 ustry. Production. 6,601,250 283,308 229,875 lies, Etc. Gallons. 61,400 91,000 23,000 2,000	\$11,200 70 10,542 14,721 20,168 1,800 370 3,186 455 437 71 \$123,184 Value. \$2,200,416 94,436 36,780 Value. \$9,210 22,750 22,750 20,000 400

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STATISTICS OF MERCED COUNTY, 1909-10-Continued.

Live Stock Industry.	1	Poultry and	Eggs.	
Number. V	alue.		Dozen.	Value.
	7,375 Chickens		6.150	\$43,050
		,	250	
Dairy Cows—Graded 23,250 1.1				1,500
	2,500 Geese	• • • • • • • • • • •	53	636
	6,500 Turkeys		1,935	58,050
	5,034 Turkey egg	s	1,400	2,800
Swine 38,240 3	2.350 Eggs		307.500	76,875
Horses—Thoroughbred 41	2,300			,
		ue		\$182,911
	5.546		· · · · · · ·	V 102,011
	8,725	Manufactor	ies	
		200101		
	2,000		Number of	
	1,000		Employees.	
		2		\$10,000
Lambs 30,100	0,200 Flouring mi	ills 2		128,000
Angora goats 700	1,750 Meat produc	.ct s		
	2.936 Hides			63,750
Common Boats 0,100				17,750
Total stock 235,207 \$3,3	1,222 Tallow			4,637
				625
Wool (pounds) 552,400			• • • • •	
Forest Products.				1,250
				16,000
	due. Dredger			30,000
	5.000			
Power used for mills and manufact	ories l	Manufactured (Dut put .	
in county-Steam (number), 1; elec				Quantity.
(number), 1; water (number), 1.	Brick (thou	sand)		1.250
(mamber), 1, water (mamber), 1.	Flour (harro	els)		21,350
Miscellaneous Products.	Hides (nour	nds)	• • • • • • •	637,500
	Lard (pound	ds)	• • • • • • •	
	100 malla (bound	us)		105,000
Bees (hives), number. 2,560	5,120 Tallow (bar	rrels)	• • • • • •	375
Beeswax	607 Olive oil (ga	allons)		250
Broomcorn 8,000		llons)		1,690
Honey 131.650	3.165 Cereals (por	unds)		533, 350

MODOC COUNTY.

Modoc County lies in the extreme northeastern corner of California. The county is a succession of mountain ranges and valleys branching off from the Sierra Nevada Mountains, the principal spur of which is the Warner Range. It is principally drained by Pitt River, which flows into the Sacramento, near Redding, Shasta County. The lava-bed section occupies over one half the total area. The county has two large lakes, but barring the lakes and the large cattle ranges it is sparsely settled.

The valleys are the principal features, the leading ones being Surprise, Goose Lake, Hot Springs, Jess, Big, and Little Hot Springs.

Wheat, barley, fruit, vegetables, and hay are the leading staples. Thousands of acres are in alfalfa, and the stock and dairying industries are thriving. Every ranch has a fine orchard, and ranch houses and barns, costing \$5,000 or \$6,000 in total improvements, are not uncommon. Trees, both shade and ornamental, abound around every place.

The climate is that of the temperate zone, and the products are those of the great intermountain region which stretches from the Sierra to the western plains of Kansas. Snow falls in the valleys and much deeper in the mountains, forming the principal supply of moisture for the development of the country. Stock is usually fed for several months through the winter, although it is not always necessary to do so. The thermometer will sometimes run below zero for a few days in the winter, but not for very long, and 90 degrees is extreme heat for summer. Even in summer the evenings are cool and delightful.

The county is well watered. Surprise Valley has nearly twenty streams, which run both winter and summer. Goose Lake Valley is equally fortunate, while Pitt River supplies water for many farms and ranches. Many springs exist, especially in the mountains; and in

Surprise Valley there are many artesian wells.

The timber of the county is pine and fir in the Warner Range, and

sugar pine in the western part.

Horticulture has had but a small place in the industries, only sufficient fruit for home uses being raised. However, the gradual approach of the railroad running north from Reno, Nevada, will increase the productivity in this line immensely, as the county is well adapted to apples, pears, and berries. The wild plum is about the only native fruit. The cultivated fruits were brought in the earlier days from Eastern States by the immigrants who came across the plains. A great deal of orchard planting has been done within the last few years.

The last five years has seen a great deal of reservoir work undertaken throughout the county and its tributary valleys. The rains come

in time to insure abundant harvests year after year.

The nearest railroad point to Alturas, the county seat, is Madeline, in Lassen County. Daily trains are run from Madeline to Reno, Nevada. There are flouring mills located at Bidwell, Lake City, Cedarville, New Pine Creek, Alturas, and Adin. There are sawmills located at Bidwell, Cedarville, Eagleville, Willow Ranch, Davis Creek, Jess Valley, Alturas, Adin, and Willow Valley.

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STATISTICS OF MODOC COUNTY, 1909-10.

General Stati	indian	. Number of	Paris T	*	**
		Number of			
Area 4,100 square miles, o		. Annia	Bearing.	Non-bearing	Total.
Number of farms		Apple	24,756 151	2,02 4 150	26,7 80 801
Number of acres assessed Value of country real esta	1 646,7 ate \$3,738,9	Cherry	686	430	1,116
value of country real esta	ate \$3,738,9	Apricot Cherry Nectarine	50	10	60
Of improvements thereon	***************************************	FIPERCO	1.330	632	1.962
Of city and town lots Of improvements thereon	\$476,8 \$112,1 \$299,8	Pear	1,330 1,062	506	1,568
Of personal property	\$1 970 G	7 Plum	1,670	770	2,440
Total value of all propert	\$1,270,6 \$2\$6,049,2	Pear	312	7 5	387
Of personal property Total value of all propert Expended on roads, last	fiscal	Quince	8	• • • • • • •	8
		0 100 100	90 595	4 505	04 705
Expended for bridges, la	st fis-	Total fruit	30,525	4,587	34,735
cal year	\$2,0	Walnut	175	10	185
Number of miles of public	roads 5	O Grapevines	100		100
Road levy per \$100, 1910 .	30	Berries, acres.	27		27
Expended for bridges, la cal year Number of miles of public Road levy per \$100, 1910 Value of county buildings	\$10,00	Kenite	. Vegeta	bles, Etc.	
rrigating ditches (miles) Railroads, steam — miles, assessed value —	2814		e, vegeta	Total	
assessed value	, 2072, \$149,79	1	1		•
Electric power plants —	1: as-	Green— Apples		Pounds.	
sessed value	\$2,5	0 Apples		2,072,821	
Electric power lines—mile	8, 61/2;	Apricots		49,650	
assessed value Number of acres irrigated	\$7	0 Discorperries	• • • • • • • •		
Number of acres irrigated	1 58,6	Cabbaga	• • • • • • • • • • • • • • • • • • • •	123,525	
Cereal Products a	nd Hav.	Cabbage Cauliflower	• • • • • • • • • • • • • • • • • • • •	123,525 138,700 7,000	
Tons of 2,000 po		Corn		30,000	
Acres	Bushala Valua	('iirranta		790	
Wheat 4,804 1 Barley 4,856 1 Oats 2,293	107,801 \$109,91 133,008 111,7 52,844 36,91 2,739 3,2	Currants	••••••	61,015	
Barley 4,356	133,008 111,7	Grapes		1,655 300	
Oats 2,293	52,844 36,9	O Grapes	• • • • • • • •		
Rye 260 Corn 100	2,739 3,2	7 Loganderries .	• • • • • • •	2,665	
Corn 100	2,000 1,0	Nectarines	• • • • • • • • •	6,000	
Acres.	Tons. Value	Onions	• • • • • • • •	191 550	
Alfalfa hay 5,719	18.101 \$ 113.9	Peaches	• • • • • • • • •	4,000 121,550 130,370	
Grain hay 772 Grass hay 30,675	1,727 13,8	Plums		129,154	
Grass hay 30,675	64,898 401,5	Pears		1.228.800	
Total hay 37,166	84,726 \$529,3	o i si weet butatues		100	
10tar nay 37,100	01,120 4023,0	Prunes		100 88,330	
T ! G L T					
Live Stock Ind	dustry.	Quinces	• • • • • • •	600	
	Number Value	Raspberries		34,435	
Cattle—Beef	Number Value	Raspberries		34,435 12,000	
Cattle—Beef	Number. Value 11,723 \$446,2 41,822 836,4	Strawberries Tomatoes		34,435 12,000 186,200	
Cattle—Beef Stock	Number Value	Raspberries Strawberries Tomatoes	• • • • • • • • • • • • • • • • • • • •	34,435 12,000 186,200 Pounds.	Value.
Cattle—Beef Stock	Number. 11,723 \$446,2 41,822 \$36,4 1,126 56,3	Raspberries Strawberries Tomatoes	• • • • • • • • • • • • • • • • • • • •	34,435 12,000 186,200 Pounds.	\$2,1 88
Cattle—Beef Stock	Number. 11,723 \$446,2 41,822 \$36,4 1,126 56,3	Raspberries Strawberries Tomatoes	• • • • • • • • • • • • • • • • • • • •	34,435 12,000 186,200 Pounds.	\$2,188 35
Cattle—Beef Stock	Number. Value 11,723 \$446,2 41,822 836,4 1,126 56,3 200 8,0 20 8,0 40 2.0	Raspberries		34,435 12,000 186,200 Pounds.	\$2,188 35 3,086
Cattle—Beef	Number. Value 11,723 \$446,2 2 836,4 1,126 56,3 200 8,0 20 40 2,0 258 14 4	Apples		34,435 12,000 186,200 Pounds.	\$2,188 35 3,086 3,308 53
Cattle—Beef Stock Dairy Cows—Graded Thoroughbred— Herefords Holseins Jersey Shorthorns Calves	Number. Value 11,723 \$446,2 2 836,4 1,126 56,3 200 8,0 20 40 2,0 258 14 4	Apples	, , , , , , , , , , , , , , , , , , ,	34,435 12,000 186,200 Pounds.	\$2,188 35 3,086
Cattle—Beef Stock Dairy Cows—Graded Thoroughbred— Herefords Holseins Jersey Shorthorns Calves	Number. Value 11,723 \$446,2 2 836,4 1,126 56,3 200 8,0 20 40 2,0 258 14 4	Apples		34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 2,000	\$2,188 35 3,086 3,308 53
Cattle—Beef Stock Dairy Cows—Graded Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred	Number. Value 11,723 \$446,2 41,822 \$36,4 56,3 200 8,0 20 40 2,0 258 14,4 9,375 112,5 6,358 55,7 6,6	Haspberries	, , , , , , , , , , , , , , , , , , ,	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 2,000 1 Eggs.	\$2,188 35 3,086 3,308 53 20
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred	Number. Value 11,723 \$446,2 41,822 \$36,4 1,126 56,3 200 8,0 20 8,0 40 2,0 258 14,4 9,375 112,5 6,358 65,7 6,6 6,6	Haspberries Strawberries Tomatoes Dried— Apples Apricots Beans Onions Pears Pears Pear Po Po	ultry and	34,435 12,000 186,200 Pounds. 31,250 500 61,715 110,270 750 2,000 i Eggs.	\$2,188 35 3,086 3,308 53 20
Cattle—Beef Stock Dairy Cows—Graded Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common	Number. Value 11,723 \$446,2 41,822 \$46,2 41,126 56,3 200 8,0 20 258 14,4 9,375 112,5 6,358 55,7 6,6 80 14,3 9,207 554,3	Haspberries Strawberries Tomatoes Apples Apricots Onions Pears Pears On Chickens	ultry and	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 2,000 I Eggs. Dosen.	\$2,188 35 3,086 3,308 53 20 Value. \$12,712
Cattle—Beef Stock Dairy Cows—Graded Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common	Number. Value 11,723 \$446,2 41,822 \$46,2 41,126 56,3 200 8,0 20 258 14,4 9,375 112,5 6,358 55,7 6,6 80 14,3 9,207 554,3	Haspberries Strawberries Tomatoes Apples Apricots Onions Pears Pears On Chickens	ultry and	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 2,000 1 Eggs. Dosen. 3,178 15	\$2,188 35 3,086 3,308 53 20 Value. \$12,712 90 150
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies. Mules	Number. Value 11,723 \$446,2 41,822 836,4 1,126 56,3 200 8,0 200 20 20 258 14,9,875 112,5 6,358 55,7 6,6 80 14,3 9,207 66,2 9,207 56,35,3 5,7 89,9 67,5 899 67,5	Raspberries Strawberries Strawberries Tomatoes Tomatoes Apricots Beans Onions Pears Pears Pears Pears Onions Pears Pears Onions Pears Pears Pears Onions Pears Pears Pears Onions Pears Pears Pears Onions Poologo Poologo Onions Poologo Poologo Onions Poologo Poologo	ultry and	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 2,000 1 Eggs. Dosen. 3,178 12 166	\$2,188 35 3,086 3,308 53 20 Value. \$12,712 90 150
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies. Mules	Number. 11,723 \$446,2 41,822 \$36,4 56,3 200 8,0 20 258 114,5 6,358 55,7 6,6 6,5 80 14,3 9,207 554,3 2,008 94 83,7 88,016 16,36 6,55 899 67,5 38,016 16,36 163,0	Haspberries Strawberries Tomatoes Dried— Apples Apricots Beans Onions Pears Peas Po Chickens Ducks Chickens Ducks Turkeys Turkeys	ultry and	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 2,000 1 Eggs. Dosen. 3,178 12 166	\$2,188 35 3,086 3,308 53 20 Value. \$12,712 90 150
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies. Mules	Number. 11,723 \$446,2 41,822 \$36,4 56,3 200 8,0 20 258 114,5 6,358 55,7 6,6 6,5 80 14,3 9,207 554,3 2,008 94 83,7 88,016 16,36 6,55 899 67,5 38,016 16,36 163,0	Haspberries Strawberries Tomatoes Dried— Apples Apricots Beans Onions Pears Peas Po Chickens Ducks Chickens Ducks Turkeys Turkeys	ultry and	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 2,000 i Eggs. Dosen. 3,178 15 12 166 1,906,800	\$2,188 35 3,086 3,308 53 20 Value. \$12,712 90 150 2,973 476,700
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies. Mules Sheep Lambs Angora goats	Number. Value 11,723 \$446,2 41,822 \$36,4 41,824 1,126 56,3 200 8,0 200 40 2,0 40 2,55 112,5 6,358 55,7 57 80 14,3 2,008 60,2 94 35,7 899 67,5 38,016 163,0 28,083 84,2 1,883 7,5	Haspberries Strawberries Tomatoes Dried— Apples Apricots Onions Pears Pears Chickens Ducks Geese Turkeys Eggs Total value	ultry and	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 2,000 i Eggs. Dosen. 3,178 15 12 166 1,906,800	\$2,188 35 3,086 3,308 53 20 Value. \$12,712 90 150
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies. Mules Sheep Lambs Angora goats	Number. 11,723 \$446,2 41,822 \$36,4 56,3 200 8,0 20 258 114,5 6,358 55,7 6,6 6,5 80 14,3 9,207 554,3 2,008 94 83,7 88,016 16,36 6,55 899 67,5 38,016 16,36 163,0	Haspberries Strawberries Tomatoes Dried—Apples Apricots Onions Pears Pears Othickens Ducks Geese Turkeys Eggs Total value	ultry and	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 2,000 i Eggs. Dosen. 3,178 15 12 166 1,906,800	\$2,188 35 3,086 3,308 53 20 Value. \$12,712 90 150 2,973 476,700
Cattle—Beef Stock Dairy Cows—Graded Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Common goats Full-blood horses and	Number. 11,723 \$446,2 41,822 836,4 56,3 200 8,0 20 20 20 8,0 20 20 20 8,0 3558 55,7 6,6 358 55,7 6,6 30 14,3 9,207 6,5 4,3 2,008 60,2 94 85,7 899 67,5 8,016 163,0 28,083 7,5 1,200 3,6	haspberries kaspberries Strawberries Tomatoes Dried— Apples Apricots Apricots Pears Pears Po Chickens Ducks Geese Turkeys Eggs Total value	ultry and	34,435 112,000 186,200 Pounds. 31,250 61,715 110,270 2,000 1 Eggs. Douen. 3,178 15 12 166 1,906,800	\$2,188 35 3,086 3,308 53 20 Value. \$12,712 90 150 2,973 476,700
Cattle—Beef Stock Dairy Cows—Graded Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Full-blood horses and	Number. 11,723 \$446,2 41,822 836,4 56,3 200 8,0 20 20 8,0 40 2,0 255 112,5 6,358 55,7 6,6 80 14,3 9,207 6,5 4,3 2,008 60,2 94 85,7 899 67,5 38,016 163,0 28,083 7,5 1,200 3,6 46 70,0	haspberries kaspberries Strawberries Tomatoes Dried— Apples Apricots Apricots Pears Pears Po Chickens Ducks Geese Turkeys Eggs Total value	ultry and	34,435 112,000 186,200 Pounds. 31,250 61,715 110,270 2,000 1 Eggs. Douen. 3,178 15 12 166 1,906,800	\$2,188 35 3,086 3,308 53 20 Value. \$12,712 90 150 2,973 476,700
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Full-blood horses and graded	Number. 11,723 \$446,2 41,822 836,4 56,3 8,0 258 114,6 9,375 112,5 6,358 55,7 6,6 8,0 14,3 9,207 554,3 2,008 60,2 94 35,7 8,916 163,0 28,083 84,2 1,883 7,5 1,200 3,6 46 70,0	g kaspberries g kaspberries Strawberries Tomatoes Tomatoes Apples Apples Apricots Beans Onions Pears Pears Chickens Ducks Geese Turkeys Eggs Total value F Sawmills (num	ultry and	34,435 112,000 186,200 Pounds. 31,250 61,715 110,270 2,000 1 Eggs. Domen. 3,178 15 12 166 1,906,800	\$2,188 35 3,086 3,308 53 20 Value. \$12,712 90 150 2,973 476,700
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Full-blood horses and graded	Number. 11,723 \$446,2 41,822 836,4 56,3 8,0 258 114,6 9,375 112,5 6,358 55,7 6,6 8,0 14,3 9,207 554,3 2,008 60,2 94 35,7 8,916 163,0 28,083 84,2 1,883 7,5 1,200 3,6 46 70,0	g kaspberries g kaspberries Strawberries Tomatoes Tomatoes Apples Apples Apricots Beans Onions Pears Pears Chickens Ducks Geese Turkeys Eggs Total value F Sawmills (num	ultry and	34,435 112,000 186,200 Pounds. 31,250 61,715 110,270 2,000 1 Eggs. Domen. 3,178 15 12 166 1,906,800	\$2,188 \$5 \$,086 \$,308 \$3,308 \$53 20 Value. \$12,712 90 150 2,973 476,700 \$492,625 Value. \$75,000 975 97,220
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Full-blood horses and graded P Wool Mohair	Number. 11,723 \$446,2 41,822 \$36,4 46,2 41,126 56,3 8,0 200 8,0 200 20 40 2,0 40 12,0	Haspberries Strawberries Tomatoes Dried Apples Apricots Beans Onions Pears Pears Chickens Ducks Geese Turkeys Turkeys Eggs Total value Sawmills (num Laths Lumber (feet) Shingles	ultry and	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 750 2,000 1 Eggs. Dosen. 3,178 12 166 1,906,800	\$2,188 3,086 3,308 53 53 53 53 50 Value. \$12,712 90 2,973 476,700 \$492,625 Value. \$75,000 97,220 2,572
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Full-blood horses and graded Wool Mohair Common goat wool.	Number. 11,723 \$446,2 41,822 \$36,4 41,824 1,126 56,3 8,0 40 2,0 42,0 42,0 42,0 42,0 42,0 42,0	g kaspberries g kaspberries Strawberries Tomatoes Dried— Apples Apricots Beans Onions Pears Pears Po Chickens Ducks Geese Turkeys Turkeys Turkeys Sawmills (num Laths Lumber (feet) Shingles Power used fi	orest Prober)	34,435 112,000 186,200 Pounds. 31,250 61,715 110,270 750 2,000 1 Eggs. Dosen. 3,178 16 1,906,800	\$2,188 \$5 \$,086 \$,308 \$3,808 \$53 20 ***Palue. \$12,712 90 150 2,973 476,700 \$492,625 ***T5,000 \$7
Cattle—Beef Stock Dairy Cows—Graded Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Full-blood horses and graded Wool Mohair Common goat wool Wines, Brandies	Number. Value 11,723 \$446,2 \$446,2 \$41,822 \$856,4 \$1,126 \$6,3 \$200 \$8,0 \$258 \$14,4 \$9,375 \$112,5 \$6,358 \$5,7 \$6,6 \$80 \$14,3 \$9,207 \$54,3 \$9,207 \$54,3 \$6,2 \$94 \$35,7 \$899 \$67,5 \$38,016 \$163,0 \$28,083 \$84,2 \$1,883 \$7,5 \$1,200 \$3,6 \$46 \$70,0 \$1,883 \$4,2 \$36,2 \$46,591 \$1,800 \$\$s, Etc.	g kaspberries g kaspberries g kaspberries strawberries Tomatoes Dried— Apples Apricots Onions Pears Pears Onions Pears Onions Pears Onions Pears Onions Pears Pears Turkeys Eggs Total value Sawmills (num Laths Lumber (feet) Shingles Power used fin county	orest Prober)	34,435 112,000 186,200 Pounds. 31,250 61,715 110,270 750 2,000 1 Eggs. Dosen. 3,178 16 1,906,800	\$2,188 \$5 \$,086 \$,308 \$3,808 \$53 20 ***Palue. \$12,712 90 150 2,973 476,700 \$492,625 ***T5,000 \$7
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Common goats Full-blood horses and graded Wool Mohair Common goat wool.	Number. 11,723 \$446,2 41,822 836,4 56,3 200 8,0 20 40 2,0 40 9,375 112,5 6,358 55,7 57 14,3 9,207 554,3 2,908 60,2 94 35,7 899 67,5 13,8016 163,0 28,083 7,5 1,200 3,6 70,000,000,000,000,000,000,000,000,000,	Haspberries Strawberries Strawberries Tomatoes Dried— Apples Apricots Dominis Pears Pears Chickens Ducks Geese Turkeys Eggs Total value Total value Lumber (feet) Shingles Power used fin county Stringles (number), 4.	orest Prober)	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 2,000 i Eggs. Dosen. 3,178 12 19,906,800 	\$2,188 \$5 \$,086 \$,308 \$3,808 \$53 20 ***Palue. \$12,712 90 150 2,973 476,700 \$492,625 ***T5,000 \$7
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Full-blood horses and graded Wool Wines, Brandies Beer (gallons)	Number. 11,723 \$446,2 41,822 \$36,4 1,126 56,3 200 8,0 20 258 94 9,375 112,5 6,358 65,7 6,6 39,207 554,3 2,008 30,143,3 9,207 554,3 2,008 30,143,3 9,207 554,3 2,008 30,143,3 9,207 554,3 2,008 60,2 94 35,7 83,016 163,0 28,083 84,2 1,883 7,5 1,200 3,6 46 70,0 00 00 00 00 00 00 00 00 00 00 00 00	Haspberries Strawberries Strawberries Tomatoes Dried— Apples Apricots Dominis Pears Pears Chickens Ducks Geese Turkeys Eggs Total value Total value Lumber (feet) Shingles Power used fin county Stringles (number), 4.	orest Prober)	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 750 2,000 1 Eggs. Dosen. 3,178 12 166 1,906,800	\$2,188 35 3,086 3,308 3,308 53 20 Value. \$12,712 90 150 2,973 476,700 \$492,625 Value. \$75,000 97,220 2,573 97,220 2,573 1factories 1; water
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Full-blood horses and graded Wool Wines, Brandies Beer (gallons)	Number. 11,723 \$446,2 41,822 \$36,4 1,126 56,3 200 8,0 20 258 94 9,375 112,5 6,358 65,7 6,6 39,207 554,3 2,008 30,143,3 9,207 554,3 2,008 30,143,3 9,207 554,3 2,008 30,143,3 9,207 554,3 2,008 60,2 94 35,7 83,016 163,0 28,083 84,2 1,883 7,5 1,200 3,6 46 70,0 00 00 00 00 00 00 00 00 00 00 00 00	Haspberries Strawberries Strawberries Tomatoes Dried Apples Apples Apricots Beans Onions Pears Pears Po Chickens Ducks Geese Turkeys Eggs Total value Sawmills (num Laths Lumber (feet) Shingles Power used fin county Singles Power used fin county In county Misce	orest Prober)	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 750 2,000 1 Eggs. Dosen. 3,178 15 12 166 1,906,800 ducts. Amount. 300,000 4,861,000 735,000 and manuumber), 12 Products. Pounds.	\$2,188 \$5 \$,086 \$,308 \$3,808 \$53 20 Yalue. \$12,712 90 150 2,973 476,700 \$492,625 Value. \$75,000 97,220 2,572 tfactories t; water
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Full-blood horses and graded Wool Mohair Common goat wool. Wines, Brandied Beer (gallons) Cider Vinegar	Number. Value 11,723 \$446,2 41,822 \$36,4 1,126 56,3 200 8,0 20 20 40 2,0 49,375 112,5 6,358 55,7 57 57 54,3 2,008 60,2 94 35,7 80 14,3 9,207 554,3 2,008 60,2 94 35,7 8,916 163,0 28,083 7,5 1,200 3,6 46 70,0 70unds. 248,864 \$36,2 2,31,800 \$3,6 1,800 \$3,6 248,864 \$36,2 1,800 \$3,6 248,864 \$36,2 2,3 1,800 \$3,6 248,864 \$36,2 2,3 1,800 \$3,6 248,864 \$36,2 2,3 1,800 \$3,6 248,864 \$36,2 2,3 1,800 \$3,6 248,864 \$36,2 2,5 3,800 \$3,6 248,864 \$36,2 2,5 3,800 \$3,6 248,864 \$36,2 2,5 3,800 \$3,6 248,864 \$36,2 2,5 3,800 \$3,6 2,5 3,800 \$3,6 2,5 3,800 \$3,6 2,5 3,800 \$3,6 2,5 3,800 \$3,6 3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,800 \$3,6 3,6 3,800 \$3,6 3,6 3,6 3,6 3,6 3,6 3,6 3,6 3,6 3,6	g kaspberries g kaspberries strawberries Tomatoes Dried— Apples Apricots Beans Onions Pears Pears Oucks Geese Turkeys Turkeys Eggs Total value Lumber (feet) Sawmills (num Laths Lumber (feet) Shingles Lumber (feet) Shingles Lumber (feet) Misce Bees (hives), n	orest Prober)	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 750 2,000 1 Eggs. Dosen. 3,178 12 166 1,906,800	\$2,188 \$5 \$,086 \$,308 \$3,308 \$3,308 \$53 20 Yalue. \$12,712 90 150 2,973 476,700 \$492,625 Value. \$75,000 97,520 2,572 Ifactories L; water
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies. Mules Sheep Lambs Angora goats Common goats Full-blood horses and graded Wool Wines, Brandies Beer (gallons) Cider Vinegar Dairy Indus	Number. 11,723 \$446,2 41,822 836,4 46,2 41,126 56,3 200 2,0 400 2,0 40,9,375 112,5 6,358 55,7 57 61,358 60,2 409 36,7 899 38,016 13,00 3,6 46 70,0 0010ds. 248,863 1,800 5,650 2,8 1,800 5,650 2,8 1,800 5,650 2,8 1,800 5,650 2,8 1,800 5,650 2,8 1,800 5,650 2,8 2,515 1,21 try.	Haspberries Strawberries Strawberries Strawberries Tomatoes Dried Apricots Beans Onions Pears Pool Chickens Ducks Geese Turkeys Eggs Total value Sawmills (num Laths Lumber (feet) Shingles Power used fin county (number) 4. Misce Bees (hives), n Beeswax	orest Prober)	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 750 2,000 1 Eggs. Dosen. 3,178 16 1,906,800 oducts. Amount. 300,000 4,861,000 735,000 and manu umber), 1: Products. Pounds. 1,000	\$2,188 3,086 3,308 53 20 Value. \$12,712 90 150 2,973 476,700 \$492,625 Value. \$75,000 97,220 2,572 1factories 1; water
Cattle—Beef Stock Dairy Cows—Graded Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Full-blood horses and graded Wool Mohair Common goat wool Wines, Brandies Beer (gallons) Cider Vinegar Dairy Indus	Number. Value 11,723 \$446,2 41,822 \$36,4 1,126 56,3 200 8,0 200 8,0 40 2,0 258 11,2,5 6,358 55,7 6,6 80 11,2,5 80,7 554,3 9,207 554,3 9,207 554,3 9,207 54,3 1,200 3,6 28,083 7,5 1,200 3,6 46 70,0 28,083 7,5 1,200 3,6 48,883 7,5 1,200 3,6 48,883 7,5 1,200 3,6 48,883 7,5 1,200 3,6 48,884 \$36,2 1,883 7,5 1,200 3,6 48,884 \$36,2 1,883 7,5 1,200 3,6 48,884 \$36,2 1,885 1,20 2,51	g kaspberries g kaspberries strawberries Tomatoes Tomatoes Apples Apples Apricots Beans Onions Pears Pears Chickens Ducks Geese Turkeys Eggs Total value Sawmills (num Laths Lumber (feet) Shingles Lumber (feet) Shingles Power used fin county - Sinumber) 4. Misce Bees (hives), n Beeswax Honey	orest Prober)	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 750 2,000 i Eggs. Dosen. 3,178 12 166 1,906,800 oducts. Amount. 10 300,000 4,861,000 735,000 and manuumber), 1: Products. Pounds. 1,000 250 30,000	\$2,188 3,086 3,308 3,308 3,308 53 20 Value. \$12,712 90 150 2,973 476,700 \$492,625 Value. \$75,000 975 97,220 2,572 Ifactories ; water Value. \$4,000
Cattle—Beef Stock Dairy Cows—Graded Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies Mules Sheep Lambs Angora goats Common goats Full-blood horses and graded Wool Mohair Common goat wool Wines, Brandies Beer (gallons) Cider Vinegar Dairy Indus	Number. Value 11,723 \$446,2 41,822 \$36,4 1,126 56,3 200 8,0 200 8,0 40 2,0 258 11,2,5 6,358 55,7 6,6 80 11,2,5 80,7 554,3 9,207 554,3 9,207 554,3 9,207 54,3 1,200 3,6 28,083 7,5 1,200 3,6 46 70,0 28,083 7,5 1,200 3,6 48,883 7,5 1,200 3,6 48,883 7,5 1,200 3,6 48,883 7,5 1,200 3,6 48,884 \$36,2 1,883 7,5 1,200 3,6 48,884 \$36,2 1,883 7,5 1,200 3,6 48,884 \$36,2 1,885 1,20 2,51	g kaspberries g kaspberries g kaspberries strawberries Tomatoes Tomatoes Tomatoes Apples Apples Apples Apples Onions Pears Pears Onions Pears Onions Pears Poucks Geese Turkeys Eggs Total value F Sawmills (num Laths Lumber (feet) Shingles Power in county In county Misce Bees (hives), n Beeswax Honey Alfalfa seed Alfalfa seed Grass seed	orest Prober)	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 750 2,000 i Eggs. Dosen. 3,178 12 166 1,906,800 oducts. Amount. 10 300,000 4,861,000 735,000 and manuumber), 1: Products. Pounds. 1,000 30,000 436,888 6,000	\$2,188 3,086 3,308 3,308 3,308 53 20 Value. \$12,712 90 150 2,973 476,700 \$492,625 Value. \$75,000 2,572 gractories L; water Value. \$4,000 3,000 65,533
Cattle—Beef Stock Dairy Cows—Graded. Thoroughbred— Herefords Holsteins Jersey Shorthorns Calves Swine Horses—Thoroughbred Standard-bred Common Colts Jacks and jennies. Mules Sheep Lambs Angora goats Common goats Full-blood horses and graded Wool Wines, Brandies Beer (gallons) Cider Vinegar Dairy Indus	Number. Value 11,723 \$446,2 41,822 \$36,4 1,126 56,3 200 8,0 20 20 8,0 40 2,0 258 11,2,5 6,358 55,7 6,6,358 55,7 6,6,358 55,7 80 14,3 9,207 554,3 9,207 554,3 9,207 564,3 1,200 3,6 28,083 7,5 1,200 3,6 28,083 7,5 1,200 3,6 46 70,0 28,083 7,5 1,200 3,6 48,083 7,5 1,200 3,6 48,083 7,5 1,200 3,6 48,083 8	Haspberries Strawberries Strawberries Strawberries Tomatoes Dried Apples Apricots Beans Onions Pears Pool Chickens Ducks Geese Turkeys Eggs Total value Sawmills (num Laths Lumber (feet) Shingles Power used fin county (number) 4. Misce Bees (hives), n Bees wax	orest Prober)	34,435 12,000 186,200 Pounds. 31,250 61,715 110,270 750 2,000 i Eggs. Dosen. 3,178 12 166 1,906,800 oducts. Amount. 10 300,000 4,861,000 735,000 and manuumber), 1: Products. Pounds. 1,000 30,000 436,888 6,000	\$2,188 3,086 3,308 3,308 3,308 53 20 Value. \$12,712 90 150 2,973 476,700 \$492,625 Value. \$75,000 975 97,220 2,572 Ifactories ; water Value. \$4,000

MONO COUNTY.

Mono is a long, narrow county lying on the eastern slope of the Sierra, its greatest length bordering on the State of Nevada, which forms its northeastern boundary, its general direction being southeast and northwest.

The general contour is mountainous and very rough, all but 400 square miles, or less, being mountainous. The western portion lies among the Sierra Nevada Mountains, along their summit, the heights being clad in snow, and the slopes of the range being covered with forest trees.

Among the highest peaks are Mount Dana, 13,627 feet; Mount Lyell, 13,217 feet; and Castle Peak, 13,000 feet. The greater portion of the population is in the eastern part, in the valleys and the mining camps in the surrounding mountains. This portion, which has always been considered a strange, mysterious country, is of a desert-like, volcanic character abounding in salt pools, alkali, and volcanic table-lands, its character being significantly indicated by some of the local names such as Hot Springs, Geysers, Sulphur Springs, Black Lake, Soda Pond, Volcano, Obsidian Mountain, Deep Canyon, Volcanic Tableland, Red Crater, Obode Meadows, and Oasis.

Mono Lake, the "Dead Sea of America," is one of the attractions, and situated in the center of the county; it is about 12 miles long and 8 miles wide; its waters are a somewhat unusual compound, various chemical substances being found in solution in them. Several attempts have been made to utilize this water without success. This lake has all the appearances of having once been the scene of volcanic action. The country surrounding it, as Bodie, Aurora, Lundy, Tioga, and Benton, abounds in minerals. The lake has a number of small streams flowing into it, but is without a perceptible outlet.

Owens River in the south, which takes its rise in a high peak in the Sierra, and Kitten and Walker rivers in the north, are the principal streams. One passes through the southern part into Inyo County. The other, after rising in Mono County, continues its course into the State of Nevada. These two streams with their branches, together with the small streams that flow into Mono Lake, furnish the principal water supply for irrigation.

The retaining of the snow in the high mountains, at the sources of the streams used for irrigation, until later in the season, assures an abundance of pasturage on the mountain ranges, which are througed with vast herds of cattle and bands of horses and sheep that are brought from the lower sections to graze during the summer.

That portion of the valley soil lying contiguous to the streams is very rich. A great deal of the sagebrush land, formerly considered barren, is found to be very productive when placed under cultivation. Thus the area of tillable land has been vastly increased within the last few years, and wherever water can be got on the land, even well up on the foothills, there are farms that are making comfortable homes for their owners.

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The agricultural resources are chiefly confined to the raising of hay and the hardier cereals and vegetables for home consumption. The small surplus finds a ready market in the mining camps. Apples raised in the lower valleys are of superior quality and flavor and thrive well. Plums and peaches are grown on a limited scale. Berries also do well, considering the high altitude.

Grazing is the leading industry, and the pasturage is good and plentiful. Herds of dairy cattle are moved from the valleys during the summer, and an excellent product of butter is made. Large bands of sheep are also driven to its mountains for summer pasturage. Goats,

hogs, horses, poultry, and mules are raised in large numbers.

The timber belt is very large and the product of good marketable quality, but as there is no means of transportation to market, the development of the lumber interests is retarded, although considerable quantities are used for local mining purposes.

Bridgeport is the county seat, and is located in a prosperous farming

section.

Considerable mining for precious metals is carried on, the leading camp being Bodie. This industry is prosperous. The introduction of the cyanide process, and the installing of electric power plants on the several streams of the county, thereby furnishing cheap power, make it possible to work at a profit large bodies of low-grade ore that heretofore were of no value, on account of cost of reduction.

STATISTICS OF MONO COUNTY, 1909-10.

General Statistics.	Number of Fruit Trees and	Vines.
Area 2,796 square miles, or 1,789,400 acres.		Bearing.
Number of acres assessed 164,924	Apple	400
Value of country real estate \$571,235	Apricot	10
Of improvements thereon \$125,490	Cherry	30
Of city and town lots \$125,450	Peach	25
Of improvements thereon \$80,680	Pear	10
Of personal property \$494,640	Plum	25
Money and solvent credit \$3,700	Other kinds	5
Total value of all property \$1,293,895		
Expended on roads, last fiscal	Total fruit	505
year	Live Stock Industry.	
Road levy per \$100, 1910 30c	Number.	Value.
Value of county buildings \$50,000		\$5.100
Railroads, steam — miles, 32;	Dairy Cows—Graded 338	8,450
assessed value		3,150
Number of acres irrigated 120,000	Swine 187	1.015
Number of acres irrigated 120,000	Horses—Common 1.208	56.030
Cereal Products and Hay.	Colts 484	14.745
Tons of 2.000 pounds.	Jacks and jennies 12	880
Acres. Bushels. Value.	Mules 66	2,890
Wheat 280 7,700 \$6,900	Sheep 7,813	19.533
Acres. Tons. Value.		10,000
Alfalfa hay 1,800 4,500 \$27,000	Total stock 10,992	\$111,793
Grass hay 2,000 2,000 12,000		4111,.00
	Wool (pounds) 165,000	
Total hay 3,800 6,500 \$39,000		
Dairy Industry.	Forest Products.	•
Production. Value.	Amount.	Value.
Butter (pounds) 50,000 \$15,000	Lumber (feet) 1,100,000	\$27,500

MONTEREY COUNTY.

Monterey County is situated about 100 miles south of San Francisco, and 300 miles north of Los Angeles, on the Pacific coast. It is 124 miles long and 45 miles wide, its extreme length being from north to south.

Owing to the peculiar topography, with its rough mountains and broad plains, its great rivers running from south to north, with tributaries from either side, its rolling hills, and rugged mountains, it is found to be a miniature of the State, with its diversity of climate and soil, enabling it to yield everything produced in the State, and rendering it one of the most desirable regions for settlement.

Its rivers furnish a never failing supply of water for irrigation, and the mountains abound in minerals—gold, silver, copper, coal, bitumen,

and oil.

The county is divided into three sections—the mountains and hills on the east, mountains and hills on the west, and the great Salinas

Valley situated between these ranges of mountains.

The portion of Pajaro Valley lying south of the Pajaro River, and running to Monterey Bay on the southwest, is in Monterey County, and is about 15 miles long, and from 6 to 8 miles wide. The land is exceedingly fertile and under a thorough system of cultivation, producing immense crops of all kinds of vegetables, grain, fruit, and berries. Well tilled farms greet the eye, and villages, schoolhouses, churches, and picturesque residences dot the landscape in every direction. The foothills are covered with flocks and herds, and the lower ranges are timbered with live oak. The Pajaro River flows southwesterly and finds an outlet in Monterey Bay, near the mouth of the Salinas River.

The great Salinas Valley opens out on Monterey Bay and extends southward 100 miles, with an average width of 10 miles; therefore its area is about 1,000 square miles, or 640,000 acres. The Salinas River flows through its entire length. The land may be divided into three classes, viz.: First, the heavy, rich bottom lands, which produce almost everything, the soil being sediment and black adobe, which often contains just enough sand to make it work easily. Second, the mesa or table-lands, particularly adapted to growing wheat, barley, and other cereals. Third, the uplands and slightly rolling hills, some of which are the finest fruit lands in California, and will produce oranges, lemons, grapes, peaches, apricots, almonds, walnuts, figs, apples, plums, pears, berries, and all other fruits common to the State.

Nearly all semi-tropical fruits do well in some part of the this county, especially in the thermal belt along each side of Salinas Valley. A number of orange and lemon trees in yards of Salinas City hang full

of fruit each year and are never injured by frost.

In barley, beets, and carrots, this valley can not be surpassed.

Going south, wheat excels; and grapes, peaches, prunes, apricots, cherries, and almonds grow to perfection in the foothills, canyons, and small valleys, and figs do well in sheltered places.

Olive trees flourish with all the vigor they possess in their native

country. Currants, gooseberries, blackberries, loganberries, and raspberries grow luxuriantly. Strawberries are in the market all the year round, and are shipped from Pajaro by car loads. Grapes grow to perfection everywhere in the county, except in the heavy bottom lands of the lower Salinas Valley.

As to potato raising, the Salinas Valley has no equal; here is the home of the famous Salinas Burbanks that are in such great demand all through the Northwest, and thousands of sacks are shipped to the Philippine Islands. As high as four hundred bushels to the acre have

been raised near Salinas.

Dairying is a very prominent, if not a leading industry. Some of the finest dairies in the State are in Monterey County, and some of the best cheese and butter in the State are made here. They have the latest and best improved machinery, and have found their business very profitable.

Extensive work has been done in the last few years in bringing the valley under a thorough system of irrigation. Opposite Soledad, on the south side of Salinas River, considerable irrigation is done around Fort Romie on lands purchased by the Salvation Army, and sold on most favorable terms to worthy poor in need of homes. This is one of the most prosperous colonies in America. Around the Spreckels sugar factory, four miles from Salinas City, a great deal of land has been irrigated for raising beets. This is the largest beet-sugar factory in the world.

The main transcontinental line of the Southern Pacific Railroad enters this county through Pajaro Valley on the north, and runs southeast through its entire length, paralleling the Pajaro and Salinas rivers.

Pajaro is the great shipping point for apples, berries, all fruits, and

dairy products of its section.

Hotel Del Monte, "the queen of American watering places," including the main structure and two annexes, together with the connecting wings, is simply immense, and everything connected with the establishment is on the same magnificent scale. The grandeur of the hotel is repeated in the grounds, which cover 140 acres, laid out in lawns, flower beds, parks, and groves, and the landscape gardening is a marvel of beauty.

A little farther on is Monterey, situated on the beach of Monterey Bay, lying back on her sloping hills and overlooking the placid waters of the bay—one of the grandest and most beautiful townsites nature

ever formed.

Two miles farther on is Pacific Grove. Nestled among the pines is this little town, with beautiful streets, magnificent cottages, fine churches and schoolhouses, charming drives, and with never a saloon in its sacred limits.

The harbor of Monterey Bay is second in importance on the coast. The largest battleships of our navy find anchorage within 100 feet of the shore, and during heavy storms at sea it is not unusual to see many ships of different nations anchored in the calm waters of the bay. The fishing is incomparable for quantity and variety, and two canneries are located at Monterey. There is an abalone canning factory located at Point Lobos, and one at Point Sur. Monterey Bay contains about one hundred and fifty species of food fish, and many are annually taken for market.



Salinas City, the county seat, is in the heart of the best portion of Salinas Valley, the head of the first division of the railroad, near the Spreckels sugar factory, and contains extensive gas and water works, a large flouring mill, a large creamery, a planing mill, and shops, banks, churches, and schoolhouses. There are many magnificent residences and well-improved streets. Fraternal societies are well represented.

Soledad, named for Soledad Mission, is in another wheat belt, and is an important shipping point for grain and dairy products. It is the nearest point to Paraiso Springs, whose waters contain medicinal prop-

erties of a high order.

The narrow gauge railroad from Pajaro to Salinas parallels the main line on the west, taps Monterey Bay at Moss Landing—where there are extensive warehouses and lumber yards, and where the coast vessels stop regularly for grain and merchandise—then continues to Spreckels' sugar factory, and is used principally for hauling beets to the factory and lime rock from the quarries, though considerable grain is shipped by it from the region west of Salinas.

STATISTICS OF MONTEREY COUNTY, 1909-10.

C1		Danie 37	
General Statistics.	^	Fruits, Vegetables, Etc	•
Area 3,600 square miles, or 2,304,000		Production.	
Number of farms	5,200	Green— Pounds.	Value.
	,590,312	Apples 38,400,000	\$384,000
	5,503,900	Apricots 12,500	250
	,038,030	Asparagus 6,000	480
Of city and town lots 33	,022,020	Blackberries 50,000	2,000
Of improvements thereon \$2	,802,870 ,377,014	Beans 10,000	500
Of personal property \$3	743,834	Beets400,000,000	950,000
Total value of all property \$24 Expended on roads, last fiscal	, 140,004	Cabbage 20,000	400
year	\$104.797	Celery 10,000	300
Expended for bridges, last fis-	φ102, ισι	Cauliflower 10,000	300
cal year	\$30.640	Corn 500,000	5,000
Number of miles of public roads	1,550	Currants 1,000	30
Road levy per \$100, 1910	45c	Cherries 50,000	2,500
	\$115.000	Gooseberries 2,000 Grapes 400,000	100 12,000
	\$250,000	Grapes	8.000
Railroads, steam — miles, 192;	4 -00,000	Onions 200,000	500
assessed value \$3	,425,456	Pears 450,000	4.500
Railroads. electric — miles. 6:		Peaches 500,000	7,500
assessed value	\$10,000	Plums 100,000	1,000
Electric power plants 4; as-		Irish potatoes 16,000,000	1,440,000
sessed value	\$ 73,000	Raspberries 50,000	2,000
Electric power lines—miles, 35;		Strawberries 1,000,000	50,000
assessed value	\$5,000	Tomatoes 300,000	1,500
Number of acres irrigated	24,400		
Number of Fruit Trees and Vir			
	1 es.	Totals458,091,500	\$2,872,860
Bearing. Non-bearing.	Total.	Dried— Pounds:	Value.
Bearing. Non-bearing.		Dried— Pounds. Almonds 20,000	Value. \$2,000
Bearing. Non-bearing. Apple 220,650 36,800	Total. 257,450 24,250	Dried— Pounds. Almonds 20,000 Apples 360,000	Value. \$2,000 21,600
Bearing. Non-bearing. Apple 220,650 36,800	Total. 257,450 24,250 1,950	Dried— Pounda Almonds 20,000 Apples 360,000 Apricots 220,000	Value. \$2,000 21,600 17,600
Apple	Total. 257,450 24,250 1,950 300	Dried— Pounda: Almonds 20,000 Apples 360,000 Apricots 220,000 Beans 480,000	Value. \$2,000 21,600 17,600 19,200
Apple 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 Lemon 50 50	Total. 257,450 24,250 1,950 300 100	Dried— Pounda Almonds 20,000 Apples 360,000 Apricots 220,000 Beans 480,000 Onions 500,000	Value. \$2,000 21,600 17,600 19,200 10,000
Apple Bearing. Non-bearing. Apricot 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 300 Lemon 50 50 Nectarine 200	Total. 257,450 24,250 1,950 300 100 200	Dried— Pounda Almonds 20,000 Apples 360,000 Apricots 220,000 Beans 480,000 Onions 500,000 Peaches 2,000	Value. \$2,000 21,600 17,600 19,200 10,000 160
Apple 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1500 Fig 300 Lemon 50 Nectarine 200 Qlive 500	Total. 257,450 24,250 1,950 300 100 200 500	Dried— Pounda: Almonds 20,000 Apples 360,000 Apricots 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Plums 2,000	Value. \$2,000 21,600 17,600 19,200 10,000 160 100
Apple Bearing. Non-bearing. Apricot 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 50 Lemon 50 50 Nectarine 200 Olive 500 Orange 500 100	Total. 257,450 24,250 1,950 300 100 200 500 600	Dried— Pounda Almonds 20,000 Apples 360,000 Apricots 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Plums 2,000 Prunes 8,000	Value. \$2,000 21,600 17,600 19,200 10,000 160 100 400
Apple Bearing. Non-bearing. Apricot 16,350 36,800 Cherry 450 1,500 Fig 300 300 Lemon 50 50 Nectarine 200 Olive 500 100 Orange 500 1,000 Peach 4,750 1,000	Total. 257,450 24,250 1,950 300 100 200 500 600 5,750	Dried— Pounda: Almonds 20,000 Apples 360,000 Apricots 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Plums 2,000	Value. \$2,000 21,600 17,600 19,200 10,000 160 100
Apple 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 Lemon 50 50 Nectarine 200 Olive 500 Orange 500 100 Peach 4,750 1,000 Pear 6,250 3,500	Total. 257,450 24,250 1,950 300 100 200 500 600 5,750 9,750	Dried— Pounda Almonds 20,000 Apples 360,000 Apricots 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Plums 2,000 Prunes 8,000 Walnuts 2,000	Value. \$2,000 21,600 17,600 19,200 10,000 160 100 400 220
Apple Bearing. Non-bearing. Apricot 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 50 Lemon 50 50 Nectarine 200 Olive 500 Orange 500 100 Peach 4,750 1,000 Pear 6,250 3,500 Plum 2,000 1,000	Total. 257,450 24,250 1,950 300 100 200 500 600 5,750 9,750 3,000	Dried— Poundar Almonds 20,000 Apples 360,000 Appricots 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Plums 2,000 Prunes 8,000 Walnuts 2,000 Totals 1,594,000	Value. \$2,000 21,600 17,600 19,200 10,000 160 100 400 220
Apple 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 Nectarine 200 Olive 500 Orange 500 100 Peach 4,750 1,000 Pear 6,250 3,500 Plum 2,000 1,000 Prune 1,850	Total. 257,450 24,250 1,950 300 100 200 500 600 5,750 9,750 3,000 1,850	Dried— Pounda Almonds 20,000 Apples 360,000 Apricots 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Prunes 8,000 Walnuts 2,000 Totals 1,594,000 Canned— Cases.	Value. \$2,000 21,600 17,600 19,200 10,000 400 220 \$71,286 Value.
Apple Bearing. Non-bearing. Apricot 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 50 Lemon 50 50 Nectarine 200 Olive 500 Orange 500 100 Peach 4,750 1,000 Pear 6,250 3,500 Plum 2,000 1,000	Total. 257,450 24,250 1,950 300 100 200 500 600 5,750 9,750 3,000	Dried— Pounda Almonds 20,000 Apples 360,000 Apricots 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Plums 2,000 Prunes 8,000 Walnuts 2,000 Totals 1,594,000 Canned— Cases. Apples 600	Value. \$2,000 21,600 17,600 19,200 10,000 160 400 220 \$71,286 Value. \$1,400
Apple 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 Lemon 50 50 Nectarine 200 Orange 500 Orange 500 100 Peach 4,750 1,000 Pear 6,250 3,500 Plum 2,000 1,000 Prune 1,850 Quince 1,200	Total. 257,450 24,250 1,950 300 100 200 500 600 5,750 9,750 3,000 1,850 1,200	Dried— Pounda Almonds 20,000 Apples 360,000 Apples 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Prunes 8,000 Walnuts 2,000 Totals 1,594,000 Canned— Cases. Apples 600 Apricots 350	Value. \$2,000 21,600 17,600 19,200 10,000 160 400 220 \$71,286 Value. \$1,400 1,550
Apple 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig	Total. 257,450 24,250 1,950 300 100 200 500 600 5,750 9,750 3,000 1,850 1,200	Dried— Pounda Almonds 20,000 Apples 360,000 Apricots 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Plums 2,000 Prunes 8,000 Walnuts 2,000 Totals 1,594,000 Canned— Cases. Apples 600 Apricots 350 Pears 300	Value. \$2,000 21,600 17,600 19,200 10,000 160 400 220 \$71,286 Value. \$1,400 1,550 600
Apple 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 Lemon 50 50 Nectarine 200 Olive 5000 Orange 500 100 Peach 4,750 1,000 Plum 2,000 1,000 Prune 1,850 Quince 1,200 Total fruit 255,050 Almond 3,000	Total. 257,450 24,250 1,950 300 100 200 500 600 9,750 3,000 1,850 1,200 306,900 3,000	Dried— Pounda Almonds 20,000 Apples 360,000 Apples 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Prunes 8,000 Walnuts 2,000 Totals 1,594,000 Canned— Cases. Apples 600 Apricots 350	Value. \$2,000 21,600 17,600 19,200 10,000 160 400 220 \$71,286 Value. \$1,400 1,550
Apple 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 Lemon 50 50 Nectarine 200 Orange 500 Peach 4,750 1,000 Pear 6,250 3,500 Plum 2,000 1,000 Prune 1,850 Quince 1,200 Total fruit 255,050 Almond 3,000 Chestnut 50	Total. 257, 450 24,250 1,950 300 100 200 500 600 5,750 9,750 3,000 1,850 1,200 3,000 3,000 3,000 5,000	Dried—Almonds Pounda Almonds 20,000 Apples 360,000 Apricots 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Prunes 8,000 Walnuts 2,000 Totals 1,594,000 Canned—Apples 600 Apples 600 Apricots 350 Pears 300 Peaches 800	Value. \$2,000 21,600 17,600 19,200 10,000 400 220 \$71,286 Value. \$1,400 1,550 600 1,600
Apple 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 Nectarine 200 Olive 500 Orange 500 100 Peach 4,750 1,000 Peach 4,750 1,000 Pium 2,000 1,000 Prune 1,850 Quince 1,200 Total fruit 255,050 51,850 Almond 3,000 Chestnut 50 Peach 500 Orange 500 500 Chempion 100 Chempion 100 Chempion 100 Chestnut 50 Chestnut 50 Chempion 3,000 Chestnut 50 Chempion 3,000 Chestnut 50 Chempion 3,000 Ch	Total. 257,450 24,250 1,950 300 100 200 500 5,750 9,750 3,000 1,850 1,200 3000 500 500 500 500 500 500 500 500	Dried— Pounda Almonds 20,000 Apples 360,000 Apricots 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Plums 2,000 Prunes 8,000 Walnuts 2,000 Totals 1,594,000 Canned— Cases. Apples 600 Apricots 350 Pears 300	Value. \$2,000 21,600 17,600 19,200 10,000 160 400 220 \$71,286 Value. \$1,400 1,550 600
Apple 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 Lemon 50 50 Nectarine 200 Orange 500 Peach 4,750 1,000 Pear 6,250 3,500 Plum 2,000 1,000 Prune 1,850 Quince 1,200 Total fruit 255,050 Almond 3,000 Chestnut 50	Total. 257, 450 24,250 1,950 300 100 200 500 600 5,750 9,750 3,000 1,850 1,200 3,000 3,000 3,000 5,000	Dried—Almonds Pounda Almonds 20,000 Apples 360,000 Apricots 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Prunes 8,000 Walnuts 2,000 Totals 1,594,000 Canned—Apples 600 Apples 600 Apricots 350 Pears 300 Peaches 800	Value. \$2,000 21,600 17,600 19,200 10,000 400 220 \$71,286 Value. \$1,400 1,550 600 1,600
Apple 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 Nectarine 200 Olive 500 Orange 500 100 Peach 4,750 1,000 Peach 4,750 1,000 Pium 2,000 1,000 Prune 1,850 Quince 1,200 Total fruit 255,050 51,850 Almond 3,000 Chestnut 50 Peach 500 Orange 500 500 Chempion 100 Chempion 100 Chempion 100 Chestnut 50 Chestnut 50 Chempion 3,000 Chestnut 50 Chempion 3,000 Chestnut 50 Chempion 3,000 Ch	Total. 257,450 24,250 1,950 300 100 200 500 5,750 9,750 3,000 1,850 1,200 3000 500 500 500 500 500 500 500 500	Dried—Almonds Pounda Almonds 20,000 Apples 360,000 Apples 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Plums 2,000 Prunes 8,000 Walnuts 2,000 Totals 1,594,000 Cansed—Apples 600 Apricots 350 Pears 300 Peaches 800 Totals 2,050 Wines, Brandies, Etc. Gallons.	Value. \$2,000 21,600 17,600 19,200 10,000 160 400 220 \$71,286 Value. \$1,400 1,550 600 \$5,150 Value.
Apple 220,650 36,800 Apricot 16,350 7,900 Cherry 450 1,500 Fig 300 Lemon 50 50 Nectarine 200 Olive 500 Orange 500 1,000 Peach 4,750 1,000 Peach 4,750 1,000 Pium 2,000 1,000 Prume 1,850 Quince 1,200 Total fruit 255,050 51,850 Almond 3,000 Chestnut 50 Pecan 10 Walnut 500	Total. 257, 450 24, 250 300 1,950 600 5,750 1,850 1,200 3,000 1,200 3,000 3,000 5,750 1,200 3,000 5,00	Dried—Almonds Pounds Almonds 20,000 Apples 360,000 Appricots 220,000 Beans 480,000 Onions 500,000 Peaches 2,000 Plums 2,000 Prunes 8,000 Walnuts 2,000 Totals 1,594,000 Canned—Apples 600 Apricots 350 Pears 300 Peaches 800 Totals 2,050 Wines, Brandies, Etc.	Value. \$2,000 21,600 17,600 19,200 10,000 160 200 \$71,286 Value. \$1,400 1,550 600 1,600 \$5,150

STATISTICS OF MONTEREY COUNTY, 1909-10-Continued.

Cereal Products and Ha	ay.	Poultry and Eggs.	
Tons of 2,000 pounds.		Dozen.	Value.
Acres. Bushel		Chickens 18,000	\$72,000
Wheat 24,640 266,666	\$239,999	Ducks 250	1,125
Barley127,000 2,320,410	1,002,419	Geese 150	1.200
Oats 2,000 70	20,300	Turkeys 400	4,800
Total cereals.153,640 2,587,783	\$1,262,718	Eggs 720,000	144,000
Acres. Tons.	Value.	Total value	\$223,125
Alfalfa hay 2,000 8,000		2002 7000	4020,120
Grain hay 8,000 12,000		Forest Products.	
			Value.
Total hay 10,000 20,000	\$192,000	Fuel, wood (cords) Amount.	\$209,000
Fish Industry.		Lumber (feet) 600,000	6,000
rish Industry.		Pickets (pieces) 20.000	1.000
Salmon	Pounds.	Posts (pieces) 6.000	660
Other kinds	1,275,000	Shakes (thousand) 50	250
Other kinds	1,215,000	Posts (pieces) 6,000 Shakes (thousand) 50 Shingles (thousand) 500	1,500
Total	1 867 085		
	2,001,000	Total value	\$218,410
Dairy Industry.		Power used for mills and man	ufactories
Production	. Value.	in county-Steam (number), 40	electrical
Butter (pounds) 760,000 Cheese (pounds) 3,000,000	\$228,000	(number), 12.	,
Cheese (pounds) 3,000,000	465,000		
Condensed milk		Miscellaneous Products.	
(cases) 162,000	486,000	Pounds.	Value.
· · · · · · · · · · · · · · · · · · ·		Pounds.	Value. \$31,500
Total	\$1.179.000	Bees (hives), number. 8,000 Beeswax 5,000	Value. \$31,500 1,500
Total	\$1,179,000	Bees (hives), number. Pounds. 8,000	Value. \$31,500 1,500
Total	\$1,179,000	Bees (hives), number. 8,000 Beeswax 5,000 Honey 367,500	Value. \$31,500 1,500
Total	\$1,179,000 1. Value.	Bees (hives), number	Value. \$31,500 1,500 28,537
Total	\$1,179,000 1. Value. 0 \$692,000	Bees (hives), number	Value. \$31,500 1,500 28,537
Total Creameries, 45; condenseries, Live Stock Industry, Numbe Cattle—Beef 9, 40 Stock 32, 40	\$1,179,000 1. Value. \$692,000 0 648,000	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of s. Products.
Total Creameries, 45; condenseries, Live Stock Industry. Numbe Cattle—Beef 9,40 Stock 32,40 Dairy Cows—Graded. 10,000	\$1,179,000 1. Value. \$692,000 648,000 0 315,000	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of s. Products.
Total Creameries, 45; condenseries, Live Stock Industry. Numbe Cattle—Beef 9,400 Stock 32,400 Dairy Cows—Graded 10,000 Calves 12,000	\$1,179,000 1. Value. 0 \$692,000 0 648,000 0 315,000 0 96,000	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of s. Products.
Total Creameries, 45; condenseries, Live Stock Industry. Cattle—Beef 9, 40 Stock 32, 40 Dairy Cows—Graded 10, 00 Calves 12, 00 Swine 12, 00	x. Value. 3692,000 648,000 315,000 96,000 120,000	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of s. Products.
Total	**************************************	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of s. Products.
Total	Table 1,179,000 1. F. Value 692,000 648,000 96,000 120,000 120,000 0 96,000 0 96,000 0 96,000 0 96,000 0 96,000 0 96,000 0 960,000 0 960,000 0 960,000	Bees (hives), number. 8,000	Value. \$31,500
Total	T. Value. 5. Seg2.000 0. 648.000 0. 120.000 0. 120.000 0. 120.000 0. 360.000 0. 360.000 0. 560.000	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of Products. \$25,000
Total Creamerles, 45; condenseries, Live Stock Industry. Numbe 9,400 Stock 32,400 Dairy Cows—Graded. 10,000 Calves 12,000 Swine 12,000 Horses—Thoroughbred 200 Standard-bred 3,600 Common 11,200 Cotis 3,500	\$1,179,000 1. Yalue. \$692,000 \$648,000 \$96,000 \$120,000 \$0 60,000 \$12	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of ss. Products. \$25,000
Total Creameries, 45; condenseries, Live Stock Industry. Number 9,40	Table 1,179,000 1. Table	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of Products. \$25,000
Total Creameries, 45; condenseries, Live Stock Industry. Number Stock 32,40 Dairy Cows—Graded 10,00 Calves 12,00 Swine 12,00 Horses—Thoroughbred 3,600 Common 11,20 Common 11,20 Cotts 3,500 Jacks and jennies 3 Mules 60 Sheep 30,000	\$1,179,000 1. Yalue. \$622,000 0 648,000 0 95,000 0 120,000 0 60,000 0 560,000 0 105,000 0 16,500 0 66,000	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of ss. Products. \$25,000
Total	\$1,179,000 1. **Yalue.** \$692,000 648,000 315,000 96,000 120,000 560,000 150,000 165,500 165	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of Products. \$25,000
Total Creameries, 45; condenseries, Live Stock Industry. Cattle—Beef 9,400 Stock 32,400 Dairy Cows—Graded. 10,000 Calves 12,000 Horses—Thoroughbred 200 Standard-bred 3,600 Conmon 11,200 Coits 3,500 Jacks and jennies 3,000 Sheep 30,000 Lambs 10,000 Angora goats 1,800	\$1,179,000 1. T. Value. \$648,000 \$648,000 \$120,000 \$60,000 \$120,000 \$150,000 \$165,000 \$	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of Products. \$25,000
Total	\$1,179,000 1. T. Value. \$648,000 \$648,000 \$120,000 \$60,000 \$120,000 \$150,000 \$165,000 \$	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of Products. \$25,000
Total	\$1,179,000 1. **Yalue.** \$402,000 648,000 96,000 120,000 120,000 1560,000 165,000 16	Bees (hives), number \$8,000 5,000 5,000 5,000 367,500	Value. \$31,500 1,500 28,537 of Value of Products. \$25,000
Total	**************************************	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of Products. \$25,000
Total	\$1,179,000 1. 7. Value. \$692,000 648,000 120,000 120,000 1560,000 165,000 16	Bees (hives), number \$8,000	Value. \$31,500 1,500 28,537 of Value of Products. \$25,000
Total	\$1,179,000 1. Yalue. \$692,000 648,000 96,000 120,000 120,000 136,000 16,500 16	Bees (hives), number	Value. \$31,500 1,500 28,537 of Value of Products. \$25,000

NAPA COUNTY.

Napa County has shown a decided gain in population and wealth in the year 1909-1910. The total assessed valuation of property increased from \$14,752,470 in 1909 to \$15,095,295 in 1910. The principal resources of the county are the raising of grapes, the making of wine and of grape juice; raising of prunes, peaches, pears, plums, and other fruit, and growing of grain; quicksilver mining; the manufacture of cement at Napa Junction; the operation of tanneries, glove, shoe, cartridge, shirt, leather goods, and other manufacturing establishments.

Napa County has the great advantage of river transportation to the bay of San Francisco, passenger and freight steamers making daily trips between Napa and San Francisco. The board of supervisors have greatly improved the roads of the county in 1910, and Napa County leads the State in the number of stone bridges. The climate is mild, the thermometer rarely reaching 98° in the summer, and there are a number of extensive summer resorts, which are liberally patronized each

One great advantage of farming in Napa County is that no irrigation is required to produce any crops. The center of the Napa Valley is traversed by an electric railroad, as well as a steam road.

Napa County has almost 800 square miles of territory, and its southern boundary reaches down to within twenty-nine miles of San Fran-The Napa River, a short tidal stream, which drains the great Napa Valley, is navigable to the heart of the city of Napa.

There are many large creeks, brooks, and many springs in the hills. both mineral and otherwise, all of which would furnish limitless water

for irrigation, if Napa County needed it.

In addition to the water facilities, two steam roads and one electric line enter the city of Napa, thus making it one of the most desirable manufacturing towns in the State of California.

STATISTICS OF NAPA COUNTY, 1909-10.

General Statistics.	. 1	Cereal Pr	oducts	and Hay.	
Area 800 square miles, or 512,000	acres.	Tons o	f 2,000 p	ounds.	
Number of farms	7,500 410,000 \$5,295,585 \$2,686,785 \$1,856,025	Wheat	Acres. 45,001 3,000 5,500 2,500	Bushels. 135,000 105,000 275,000 80,000	Value. \$118,250 42,000 110,000 72,000
Of improvements thereon Of personal property	\$2,666,735 \$15,095,295	Total cereals 1	15,500	595,000	\$342,250
Total value of all property Expended on roads, last fiscal	\$27,600,425 \$43,900	Alfalfa hay Grain hay	Acres. 1,000 5,000	Tons. 4,000 10,000	Value. \$40,000
Expended for bridges, last fis- cal year	\$25,000	Grass hay	2,000	2,000	80,000 12,000
Number of miles of public roads Road levy per \$100, 1910	150 36c	Total hay		16,000	\$132,000
Value of county buildings	\$130,000	Wines,		es, Etc.	
Railroads, steam — miles, 56.07; assessed value Railroads, electric—assessed	\$1,385,833	Dry wines Champagne	4	5,000	Value. \$400,000 18,000
value Electric power plants—assessed	\$207,196	Beer (barrels) Brandy Cider		460,000 9,750 500	115,000 39,000
value Electric power lines—assessed value	\$100,000 \$70,000	Vinegar Grape juice		5,000 20,000	750 7,000
Number of acres irrigated—Al-	, ,	Number of wine	eries, 3		

STATISTICS OF NAPA COUNTY, 1909-10-Continued.

Number of Fruit Trees and	Vines.	Live Stock Industry.	
Bearing. Non-bearing	r. Total.	Number.	Value.
Apple 45,000 10,190	55,190	Cattle—Beef 272	\$6,800
Apricot 17,000 2,370	20,370	Stock 4,040	80,800
Cherry 32,000 2,900	34,700	Dairy Cows—Graded 9,255	240,000
Fig 1,500 690	2,190	Thoroughbred-	
Lemon 1,030 480	1,510	Jersey 135	6,750
Nectarine 390 110	500	Calves	10,300
Olive 43,460 690	44,150	Swine	13,550
Orange 2,100 2,130	4,230	Horses-Thoroughbred 5	4,000
Peach 107,880 6,400	114,280	Standard-bred 170	42,500
Pear 69,120 920	70,040	Common 5,890	294,500
Plum 120,320 35,090	155,410	Colts 1,525	30,500
Prune 91,180 8,465	99,645	Jacks and jennies 10	100
Quince 970 730	1,700	Mules 340	17,000
		Sheep 3,650	10,950
Total fruit 531,950 71,165	603,115	Lambs 500	1,000
Almond 47,450 3,160	50,610	Common goats 150	300
	11,640		4750 050
Walnut 9,400 2,240	11,040	Total stock 30,712	\$759,050
Total nut 56,850 5,400	62,250	Wool (pounds)	3,000
10tai nut 50,650 0,400	02,200	Poultry and Eggs.	
Grapevines 11,270 4,840	16,110	1	
Hops (acres)	100	Dosen.	Value.
Potatoes (acres)	450	Chickens 2,600	\$13,000
		Ducks 50	300
Fruits, Vegetables, Etc.		Geese 10	60
· •		Turkeys 200	4,800
Total Production.		Eggs 15,000	4,500
Green→ Pounds.	Value.	Model melus	***
Apples 1,950,000	\$12,590	Total value	\$22,660
Apricots 1,000,000	9,800	Forest Products.	
Blackberries 22,000	7770	Amount	Value.
Cabbage 10,000	250	Fuel, wood (cords) 1,500	\$8,250
Cauliflower 5 000	125	, · · · · · · · · · · · · · · · · · · ·	
Cauliflower 5,000	125	Power used for mills and manu	ufactories.
Cauliflower	125 20,500	Power used for mills and manuin county—Steam (number), 24;	ufactories.
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000	20,500 330,000	Power used for mills and manu	ufactories.
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000	125 20,500 33 0,000 500	Power used for mills and manuin county—Steam (number), 24; (number), 18.	ufactories.
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000	125 20,500 33 0,000 500 250	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products.	ifactories electrical
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000	125 20,500 330,000 500 250 25,000	Power used for mills and manuin county—Steam (number), 24; (number), 18.	ufactories.
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000	125 20,500 330,000 500 25,000 31,000	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products.	ifactories electrical
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000	125 20,500 330,000 500 25,000 31,000	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds)	ufactories electrical 1,500
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 12,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000	20,500 330,000 500 25,000 31,000 6,400 8,200	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds)	1,500
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000	125 20,500 330,000 500 25,000 31,000	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds) Manufactories. Number of No. Employees. Bookbinderies	1,500 Value of Products.
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000	20,500 330,000 500 25,000 31,000 6,400 8,200 2,300	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds) Manufactories. Number of No. Employees. Bookbinderies	1,500 Value of Products.
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200	125 20,500 330,000 500 25,000 31,000 6,400 8,200 2,300 \$447,685	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds)	1,500 Value of Products.
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried— Pounds	125 20,500 330,000 250 25,000 31,000 6,400 8,200 2,300 \$447,685 Value.	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds)	1,500 Value of Products. \$2,000 12,000 6,000
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried— Pounds Apples 20,000	125 20,500 330,000 500 250 31,000 6,400 2,300 \$447,685 Value. \$1,000	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds) Manufactories. Number of No. Employees. Paper boxes 1 2 Paper boxes 1 1 10 Carriages and wagons 3 15 Cement	1,500 Value of Products. \$2,000 12,000 1,400,000
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried— Pounds Apples 20,000 Apricots 160,000	125 20,500 330,000 250 25,000 31,000 8,200 2,300 \$447,685 Value. \$1,000 8,000	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds) Manufactories. Number of No. Employees. Bookbinderies 1 2 Paper boxes 1 10 Carriages and 3 15 Cement 3	1,500 Value of Products. \$2,000 12,000 6,000 1,400,000 7,425
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried- Pounds Apples 20,000 Apricots 160,000 Pears 340,000	125 20,500 330,000 250 25,000 31,000 6,400 8,200 2,300 \$447,685 Value. \$1,000 8,000 17,500	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds) Manufactories. Number of No. Employees. Bookbinderies 1 2 Paper boxes 1 10 Carriages and 3 15 Cement 3	1,500 7 Value of Producta. 22,000 12,000 1,400,000 7,425 140,000
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried— Pounda Apples 20,000 Apricots 160,000 Pears 340,000 Peaches 510,000	125 20,500 330,000 250 25,000 31,000 6,400 8,200 2,300 \$447,685 Value. \$1,000 17,500 20,400	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds) Manufactories. Number of No. Employees. Bookbinderies 1 2 Paper boxes 1 10 Carriages and wagons 3 15 Cement Cigars	1,500 Value of Products. \$2,000 12,000 6,000 1,400,000 7,425
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried- Pounds Apples 20,000 Apricots 160,000 Pears 340,000	125 20,500 330,000 250 25,000 31,000 6,400 8,200 2,300 \$447,685 Value. \$1,000 8,000 17,500	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds) Manufactories. Number of No. Employees. 1 2 Paper boxes 1 10 Carriages and wagons 3 15 Cement Cigars Clothing 1 7 Foundries and iron	1,500 7 Value of Products. \$2,000 12,000 6,000 1,400,000 7,425 140,000 20,000
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried	125 20,500 330,000 500 250 25,000 31,000 8,200 2,300 2,300 \$447,685 Value. \$1,000 8,000 17,500 20,400 96,000	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds) Manufactories. Number of No. Employees. Bookbinderies 1 2 Paper boxes 1 10 Carriages and wagons 3 15 Cement Cigars Clothing Crackers 1 7 Foundries and iron works 3 11	1,500 Value of Products. \$2,000 12,000 1,400,000 7,425 140,000 20,000 15,000
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried— Pounda Apples 20,000 Apricots 160,000 Pears 340,000 Peaches 510,000	125 20,500 330,000 250 25,000 31,000 6,400 8,200 2,300 \$447,685 Value. \$1,000 17,500 20,400	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds) Manufactories. Number of No. Employees. Bookbinderies 1 2 2. Paper boxes 1 10 Carriages and wagons 3 15 Cement Cigars Clothing Crackers 1 7 Foundries and iron works Works 1 11 Leather goods 1 8	1,500 7 Value of Producta. \$2,000 12,000 1,400,000 20,000 15,000 10,400 10,500
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried	125 20,500 330,000 500 250 25,000 31,000 8,200 2,300 2,300 \$447,685 Value. \$1,000 8,000 17,500 20,400 96,000	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products. Honey (pounds) Manufactories. Number of No. Employees. Paper boxes 1 10 Carriages and wagons 3 15 Cement Cigars Clothing Crackers 1 7 Foundries and iron works 3 11 Leather goods 1 8 Malt 1 2	1,500 7 Value of Producta. \$2,000 12,000 1,400,000 20,000 15,000 10,400 10,500
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried- Pounds Apples 20,000 Apricots 160,000 Pears 340,000 Peaches 510,000 Prunes 3,600,000 Totals 4,630,000 Canned- Cases	125 20,500 330,000 500 25,000 31,000 8,200 2,300 \$447,685 Value. \$1,000 17,500 20,400 96,000 \$142,900	Power used for mills and manuin county—Steam (number), 24; (number), 18.	1,500 Value of Products. \$2,000 12,000 1,400,000 7,425 140,000 20,000 10,400 5,000 5,000
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried- Pounds Apples 20,000 Apricots 160,000 Pears 340,000 Peaches 510,000 Prunes 3,600,000 Totals 4,630,000 Canned- Cases Pears 18,000	125 20,500 330,000 250 25,000 31,000 6,400 8,200 2,300 \$447,685 Value. \$1,000 3,000 20,400 96,000 \$17,500 20,400 94,000 \$442,900	Power used for mills and manuin county—Steam (number), 24; (number), 18.	1,500 Value of Producta. \$2,000
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried	125 20,500 330,000 250 25,000 31,000 8,200 2,300 \$447,685 Value. \$1,000 8,000 17,500 20,400 96,000 \$142,900 Value. \$86,400 62,400	Power used for mills and manuin county—Steam (number), 24; (number), 18. Miscellaneous Products.	1,500 Value of Products. \$2,000 12,000 14,000 20,000 15,000 10,400 5,000 100,
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried- Pounds Apples 20,000 Apricots 160,000 Pears 340,000 Peaches 510,000 Prunes 3,600,000 Totals 4,630,000 Canned- Cases Pears 18,000	125 20,500 330,000 250 25,000 31,000 6,400 8,200 2,300 \$447,685 Value. \$1,000 3,000 20,400 96,000 \$17,500 20,400 94,000 \$442,900	Power used for mills and manuin county—Steam (number), 24; (number), 18.	1,500 7 Value of Producta. \$2,000 1,400,000 1,400,000 10,000 10,000 10,000 10,000 10,000 25,000 10,000 700,000
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried	125 20,500 330,000 500 250 25,000 31,000 8,200 2,300 2,300 \$447,685 Value. \$1,000 8,000 17,500 20,400 96,000 \$142,900 Value. \$86,400 62,400	Power used for mills and manuin county—Steam (number), 24; (number), 18.	1,500 Yalue of Producta. \$2,000 12,000 1,400,000 7,425 140,000 10,400 5,000 100,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried	125 20,500 330,000 250 25,000 31,000 8,200 2,300 \$447,685 Value. \$1,000 8,000 17,500 20,400 96,000 \$142,900 Value. \$86,400 62,400	Power used for mills and manuin county—Steam (number), 24; (number), 18.	1,500 7 Value of Producta. \$2,000 1,400,000 1,400,000 10,000 10,000 10,000 10,000 10,000 25,000 10,000 700,000
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried— Pounds Apples 20,000 Apricots 160,000 Peaches 510,000 Peaches 3600,000 Totals 4,630,000 Canned— Cases Pears 18,000 Peaches 13,000 Plums 16,000 Totals 47,000	125 20,500 330,000 500 250 25,000 31,000 8,200 2,300 2,300 \$447,685 Value. \$1,000 8,000 17,500 20,400 96,000 \$142,900 Value. \$86,400 62,400	Power used for mills and manuin county—Steam (number), 24; (number), 18.	1,500 Yalue of Producta. \$2,000 12,000 1,400,000 7,425 140,000 10,400 5,000 100,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,000 25,000 700,
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried— Pounds Apples 20,000 Appicots 160,000 Peaches 510,000 Prunes 3,600,000 Totals 4,630,000 Canned— Cases Pears 13,000 Plums 16,000 Totals 47,000	125 20,500 330,000 500 25,000 31,000 8,200 2,300 \$447,685 Value. \$1,000 8,000 17,500 20,400 96,000 \$142,900 Value. \$86,400 62,400	Power used for mills and manuin county—Steam (number), 24; (number), 18.	1,500 Value of Products. \$2,000 1,400,000 7,425 140,000 20,000 15,000 10,400 5,000 10,000 25,000 700,000 250,000
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Pears 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried- Pounda Apples 20,000 Apricots 160,000 Pears 340,000 Peaches 510,000 Prunes 3,600,000 Totals 4,630,000 Canned- Cases Pears 18,000 Plums 16,000 Totals 47,000 Dairy Industry No. Production.	125 20,500 330,000 500 250 25,000 31,000 6,400 8,200 2,300 \$447,685 Value. \$1,000 96,000 \$142,900 Value. \$86,400 62,400 \$220,800 Value.	Power used for mills and manuin county—Steam (number), 24; (number), 18.	1,500 Value of Producta. \$2,000 1,400,000 7,425 140,000 20,000 15,000 10,400 5,000 5,000 25,000 700,000 250,000 Quantity.
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Peaches 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried— Pounds Apples 20,000 Apricots 160,000 Pears 340,000 Peaches 510,000 Prunes 3,600,000 Totals 4,630,000 Canned— Cass Pears 18,000 Peaches 13,000 Plums 16,000 Totals 47,000 Dairy Industry No. Production. Creameries 7 211,500	125 20,500 330,000 500 25,000 31,000 6,400 8,200 2,300 \$447,685 Value. \$1,000 8,000 17,500 20,400 96,000 \$142,900 Value. \$220,800 Value. \$73,778	Power used for mills and manuin county—Steam (number), 24; (number), 18.	1,500 Value of Products. \$2,000 1,400,000 7,425 140,000 20,000 15,000 10,400 5,000 10,000 25,000 700,000 250,000
Cauliflower 5,000 Cherries 410,200 Grapes 60,000,000 Loganberries 10,000 Onions 12,000 Pears 2,500,000 Pears 3,100,000 Plums 640,000 Irish potatoes 410,000 Strawberries 31,000 Totals 90,100,200 Dried- Pounda Apples 20,000 Apricots 160,000 Pears 340,000 Peaches 510,000 Prunes 3,600,000 Totals 4,630,000 Canned- Cases Pears 18,000 Plums 16,000 Totals 47,000 Dairy Industry No. Production.	125 20,500 330,000 500 25,000 31,000 8,200 8,200 \$447,685 Value. \$1,000 96,000 \$142,900 Value. \$86,400 62,400	Power used for mills and manuin county—Steam (number), 24; (number), 18.	1,500 Value of Producta. \$2,000 12,000 1,400,000 7,425 140,000 20,000 15,000 5,000 5,000 10,400 5,000 5,000 10,000 25,000 700,000 25,000 700,000 Quantity. 99,500

NEVADA COUNTY.

Nevada County is situated in that part of the State of California generally known as the northern portion, although its county seat, Nevada City, is but 60 miles from Sacramento. It has an area of about one thousand square miles, and is bounded on the north by Sierra County, on the east by the State line between California and Nevada, on the south by Placer County, and on the west by Yuba County. From the Yuba County line, Nevada County is hemmed in by the Yuba and Bear rivers until their sources are reached. The South Yuba River heads in the high Sierra and runs across the county almost its entire length from east to west.

The climate is more varied than almost any other part of the State. On the rolling foothills of the western portion, where snow and frost are seldom seen, the elevation is slightly above the sea level, while along the eastern boundaries rise the snow-capped peaks of the Sierra Nevadas to an elevation of nearly 8,000 feet. The mean temperature, using

Nevada City as the center, is about 68° Fahrenheit.

The principal towns in the county are Nevada City, with a population

of 3,500; Grass Valley, 7,000, and Truckee, 2,000.

The Southern Pacific Railroad skirts the southern boundary line of the county for over 30 miles from west to east. From Colfax, on the line of the Southern Pacific Railroad, the Nevada County Narrow Gauge Railroad runs through Grass Valley, the metropolis of the county, to Nevada City, the county seat, a distance of 22 miles. Grass Valley and Nevada City, being only four miles apart, are also connected by an electric railroad. There is at present under course of construction what is known as the California Midland Railroad, which will connect Nevada City, Grass Valley, Auburn, of Placer County, and Marysville, of Yuba County.

Nevada County's splendid water system is also one of the many advantages so essential to the mine operator, farmer, and fruit grower. At the present time there is a network of ditches, canals, and waterways aggregating 1,000 miles in length, giving the finest water power and supply system in the State. The Pacific Gas and Electric Company have three large plants in and adjacent to our county supplying us with an unlimited amount of electricity for lighting and power purposes.

The principal industries are farming, stock raising, dairying, fruit

growing, and mining.

In the Chicago Park section, which is on the line of the Nevada County Narrow Gauge Railroad, between Colfax and Grass Valley, the soil is particularly adapted to the culture of Bartlett pears, Hungarian prunes, and grapes, all of which are grown without irrigation, and large shipments are made each year, bringing top prices in all Eastern markets.

In the southwestern portion of the county, where there is an abundance of water, the farmers are turning their attention quite extensively to dairying, which is proving to be a very profitable business. The Penn Valley Creamery, being centrally located in that section, buys all the cream from the dairyman, and is on a dividend-paying basis.

In the extreme eastern end of our county, situated on the Truckee

River, the Floriston Pulp and Paper Company are operating one of the largest pulp and paper plants on the coast, employing in and about the plant about 180 men and turning out a yearly product to the value of \$500,000.

In the production of gold, Nevada County has for the past forty years been unsurpassed. Although it has been a continual producer since the year 1849, during which time it is estimated over \$250,000,000 have been taken out, still we believe that the industry is but in its infancy. Some of the mines are working at a depth of 4,000 feet, and have proven conclusively that in every instance where depth has been attained the ore bodies and the values are equally distributed.

Nevada County is a field for investors and homeseekers. It has unlimited undeveloped mineral wealth, superb climate, soil that will produce immensely, a school system of which we are justly proud (three high schools accredited to the university, two of which also carry commercial courses), clean newspapers, churches, banks, and towns and cities whose social standing are of the best. We have also in Grass Valley Armstrong's Business College, with a state-wide reputation for efficiency.

As to the development of its natural resources, it is practically in its infancy, and an investigation of capital and homeseeker alike is earnestly solicited.

STATISTICS OF NEVADA COUNTY, 1909-10.

•	eneral Sta		0	Posite V	maablaa 184	
_				Fruits, Ve	egetables, Etc. Total	
Area 1,016 squa			420		Production.	
Number of farm Number of acre			490,092	Green-	Pounds.	Value.
Value of countr			\$2,583,785	Apples	250,000	\$ 3,750
Of improvemen			\$1,535,480	Apricots	5,000	200
Of city and tow			\$442,950	Blackberries	35,000	1,750
Of improvemen			\$1,278,400	Beans	14,000	700
Of personal pro			\$1,127,135	Beets	15,000	300
Total value of			\$6 ,967,750	Cabbage	120,000 6.000	1,800 300
Expended on r				Corn	25,000	375
vear			\$30,996	Currants	20,000	60
Expended for l	oridges, l			Cherries	40.000	2.000
cal year	<u>.</u> <u></u>		\$4,576	Figs	16.000	320
Number of mile	s of publ	ic roads	6 50	Grapes	100,000	2,000
Road levy per	100, 1910		50c	Loganberries		144
Value of county			\$100,000	Oranges (25-lb.		
Irrigating ditch			#4 000 740	boxes)	75	150
cost		~ 59.41.	\$4,223,760	Pears	539,000	16,170
Railroads, steam	u — mne	8, 99.41,	\$1,095,717	Peaches	150,000	3,000
assessed valu Railroads, elect	rio — mi	100 5 7	\$1,030,111	Peas	8,000	320
assessed valu	.ric — iiii	168, 0.1,	\$47,200	Plums	32,250	970
Electric power	nlants _	_ 4	\$1,200	Irish potatoes	300,000	4,500
sessed value			\$190,000	Prunes		2,000
Electric power			4100, 000	Raspberries		400
assessed valu			\$53,250	Strawberries		320
Number of acre			560	Tomatoes	25,000	500
Number of			Vines.	Total	-	\$42,029
214	Bearing.	Non-bearing		10000		₩×2,020
Apple	12,270	1,050	13,320	Dried	Pounds.	Value.
Apricot	170	25	195	Prunes		\$800
Cherry	285	80	365	Walnuts	4,000	600
Fig	340	10	350		-	
Lemon	15		15	Total		\$1,400
Nectarine	. 35		35			
Olive	55	45	100	Cereal Proc	ducts and Hay.	
Orange	150		150	Tons of	2,000 pounds.	
Peach	12,760	950	13,710		Acres. Tons.	Value.
Pear	36,270	7,400	43,670	Alfalfa hay	200 800	\$12,000
Plum	2,300	900	3,200		6,185 6,185	133,700
Prune	5,800	235	6,035	Grass hay	200 200	2,000
Quince	150	• • • • • • • •	150	Total hor 6	FOF 710F	91 47 700
Total fruit	70,600	10,695	81,295	Total hay 6	3,585 7,18 5	\$147,700
				. Wines F	Brandies, Etc.	
Almond	150	105	255 60	Wines, 2	•	W-1
Chestnut	20	40 680	1,080	Sweet wines	Gallons. 5.000	Value. \$3,750
Walnut	400	980	1,080	Beer (barrels)	4,250	41,437
Total nut	570	825	1,395	Vinegar		875
	760	30	790	Number of winer		
Grapevines Berries (acres)	40			of breweries, 5 (sm		, muniber
Derries (acres)	40		70	or aremotics, b (sin		
				Digitize	ed by G00g1	le

STATISTICS OF NEVADA COUNTY, 1909-10-Continued.

Dairy Industry.		Forest Products.	
Production.	Value.	Amour	t. Value.
Butter (pounds) 177,014	\$58,414	Area of timber lands	
Creameries, 1.		(acres) 19,0	00
		Cedar, pine, red-	
Live Stock Industry.		wood (acres)	\$190,000
Number.	Value.	Sawmills (number)	5
Cattle—Beef 600	\$24,000	Fuel, wood (cords) $25,0$	
Stock 2,600	52,000	Lumber (feet)20,000,0	
Dairy Cows—Graded 1,875	75,000	Paper pulp (tons) 8,7	
Calves 1,468	7,240	Pickets (pieces) 40,0	
Swine 497	3,415		00 1,000
Horses—Standard-bred 221	33,650	Shakes (thousand) 4	00 4,000
Common 1,496	149,600		
Colts 116	5,800	Total value	
Mules 42	4,200	Power used for mills and n	
Sheep 5,000	15,000	in county—Steam (number),	20; electrical
Lambs 1,300	3,250	and water (number), 35.	
Common goats 370	740	Manufactories.	
Watal stools	2077 20F	,	
Total stock	\$377,395		ber of Value of
Wool (pounds) 25,200	5,04 0		oyees. Products. .00 \$16,000
		Cigars 7	14 45,000
Poultry and Eggs.		Confectionery 4	4 6,000
Dozen.	Value.	Foundries and iron	* 0,000
Chickens 1,500	\$6,7 50	works 8	30 150,000
Turkeys 40	1,200	Meat products—	100,000
Eggs 90,000	27,000	Hides	12,000
		Lard	
Total value	\$34 ,9 5 0	Paper 1 1	.80 500,000
Miscellaneous Products.			,
Pounds.	Value.	Manufactured Outp	ut.
Natural ice (tons) 150,000	\$375 ,000		Quantity.
Granite (cubic feet) . 1,250	2,800	Cigars (thousand)	1,000
Macadam (tons) 1.304	571	Paper (pounds)	16.000.000

ORANGE COUNTY.

Orange County is bounded on the north by Los Angeles County, on the east by San Bernardino and Riverside counties, on the south by San Diego County, and on the west by the Pacific Ocean. The Santa Ana River enters the county on the northeast boundary and empties into the Newport Bay, furnishing irrigating water to the Anaheim Union Water Company and Santa Ana Valley Irrigating Company. The Santiago Creek furnishes water to and along the foothills east of Orange.

The Santa Fe, Pacific Electric, and Southern Pacific enter the county on the northwest boundary and run nearly parallel, meeting at Santa Ana, the Santa Fe continuing on to San Diego, and the Southern Pacific terminating at Newport Beach, and the Pacific Electric running to Huntington Beach. The Pacific Electric also enters the county on the northwest, running to Yorba Linda. The Santa Fe built a cut-off from Richfield to Fullerton.

San Juan by the Sea, Arch Beach, and Laguna Beach are open coast resorts. Corona del Mar, East Newport, Balboa, Newport Beach, and Port Orange are situated on Newport Bay, which is the best shipping point of the county. Huntington Beach, Sunset Beach, and Bay City, and Balboa are situated on the northwest and are connected with Newport Beach by the Pacific Electric. The Pacific States Tobacco Company have 40,000 acres of Turkish tobacco, this being the first Turkish tobacco grown in the county.

STATISTICS OF ORANGE COUNTY, 1909-10.

	· · · · · · · · · · · · · ·
General Statistics.	Fruits, Vegetables, Etc.
Area 780 square miles, or 489,200 acres.	_ Total
Number of farms 4,783	Production. Green— Pounds. Value.
Number of acres assessed 443,247	Green
Value of country real estate \$13,222,775	Asparagus 38,000 1,900
Of improvements thereon \$2,798,355	Blackberries (crates). 5,670 6,237
Of city and town lots \$4,552,855	Cabbage 5,900,000 54,100
Of improvements thereon \$2,545,360	Celery (cars) 1,212 275,720
Of personal property \$4,490,730	Cauliflower (crates) 11,970 275,725
Total value of all property \$27,783,810	Corn 80,000 800
Expended on roads and bridges.	Grapes (tons) 490 3,600
last fiscal year \$87,760	Grape fruit 3,840 3,840
Road levy per \$100, 1910 40c	Lemons (boxes) 43,392 151,872
Value of county buildings \$124,490	Oranges (boxes) 840,960 1,261,440
Irrigating ditches (miles) 300	Olives (tons) 820 26,000
Railroads, steam — miles, 132	Peaches
Railroads, electric — miles, 47;	Pears 108,500 1,085
assessed value \$782,510	Peas 160,000 4,000
Electric power plants — 1; as-	Plums 38,100 762
sessed value \$171,180	Irish potatoes (sacks). 250,000 250,000
Electric power lines — assessed	Sweet potatoes 30,000 3,750
value \$48,140	Prunes 519,600 25,980
Number of acres irrigated 31,547	Raspberries (crates) 8,000 8,000
, ,	Strawberries (crates). 19,000 20,900
Number of Fruit Trees and Vines.	Tomatoes 2,568,000 25,680
Bearing. Non-bearing. Total.	20111416005
Apple 12,795 1,540 13,335	Total \$2,176,271
Apricot 167,240 23,370 191,610	1
Fig 2,500 2,500	Dried—Pounds. Value.
Lemon 92,655 92,655	Apricots 1,700,000 \$170,000
Olive 21,365 21,365	Beans (sacks) 210,000 672,000
Orange 739,785 213,115 952,900	Peanuts 60,000 2,400
Peach 38,350 10,320 48,670	Walnuts 9,107,658 910,765
Pear 5,425 375 5,800	Canned— Cases. Value.
Plum 1,270 1,270	Peaches 7,332 14,664
Prune 17,320 17,320	Tomatoes 20,000 30,000
	Assorted 12,696 88,000
Total fruit 1,347,425	i i
Walnut 152,220 95,250	Fish Industry.
Grapevines 590	Pounds. Value.
	All kinds



STATISTICS OF ORANGE COUNTY, 1909-10-Continued.

Wines, Brandies, Etc.		Miscellaneou	is Products.	
Gallons.	Value.		Pounds.	Value.
Dry wines 60,000	\$12,000	Bees (hives), number	. 8,500	\$25,000
Sweet wines 30,000	9,000	Beeswax	9,500	2,850
Beer (barrels) 10,050	90,450	Honey	550,000	33,000
Brandy 6,000	6,000	Sugar beets (tons)	. 110,000	605,000
Number of wineries, 4; number	of distil-	Chili peppers, green (tons)		
leries, 3; number of breweries, 1.	•	(tons)	. ' 400	8,000
Dairy Industry.		Chili peppers, dry		20,000
Production.	Value.	Apricot pits (tons)		12,600
Butter (pounds) 142,152	\$56,850	Bean straw (tons) Crude oil (lubricating	4 100 014	$2,200 \\ 2,512,148$
Cheese (pounds) 273,750	82,125	Crude on (lubricating	7,100,014	2,312,140
· · · · · · · · · · · · · · · · · · ·		Wanufa	ctories.	
Total value	\$138,985	Manura	Number of	Walna of
Creameries, 1; skimming statio	ns, 5.		No. Employees.	
Live Stock Industry.		Bookbinderies	1	
Number.	Value.	Brick	1 20	\$110,000
Cattle—Beef 347	\$13,880	Cigars	4 14	16,800
Stock 8,500	25,500	Flouring mills	1 19	175,255
Dairy Cows-Graded	,	Ice plants	$\begin{array}{ccc} 2 & 15 \\ 1 & 10 \end{array}$	19,534
and thoroughbred 5,141	257,050	Machinery Olive oil		125,000
Shorthorn helfers 189	3,780	Pickled olives	i	750 400
Calves 1,565	9,390	Planing mills	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	160.000
Swine	12,444	Artificial stone	1 4	8,000
Horses—Thoroughbred 39	7,800	Sugar, beet	$\frac{1}{2}$ 32 $\frac{1}{0}$	1.850,000
Common 7,649	780,000	Tiling		78,361
Colts	63,850			10,001
Jacks and jennies 2 Mules 2,035	1,000	Manufactur	ad Outnut	
Sheep 18.030	407,000 63,105	Manuractur	ea Output.	O
Lambs 7,330	18,325	Brick, common (thou	aond)	Quantity. 200.000
12411105 1,000	10,020	Cigars (thousand)		480
Total stock	\$1,663,124	Olive oil (gallons)		300
Wool (pounds) 216,360	52,963	Pickled olives (gallon	8)	800
	52,505	Tremou on the (gamen	~,	000
Poultry and Eggs.		Cereal Produ	cts and Hay.	
Chickens 16.500	Value. \$115,500	Tons of 2.0	-	
Ducks 2,200	17,600			37
Coose 150	3,520	Wheat 5,0		Value. \$87,500
Turkeys 225	4,500	Barley 34.1		545,920
Eggs 236,750	71,025	Oats 4,3		52,500
2882		Corn 2,5		40,350
Total value	\$212,145	2,0		10,000
Forest Products.		Total cereals 46,1	85 32,891	\$ 726,270
Eucalyptus (acres)	\$20,000	Alfalfa hay 4,0		200,000
Power used for mills and man		Grain hay 25.3		200,904
		Grain nay 20,5	00 10,142	200,304
in county—Steam (number), 2; (number), 1; water (number), 1.		Total hay 29,3		\$400,904

PLACER COUNTY.

Placer County lies between latitude 38° 70′ and 39° 30′. Its direction is northeast and southwest. It is about 100 miles long and of varying widths, from 10 to 30 miles, the course and distance being defined by the course of the rivers which mark its boundaries. It extends from about 8 miles from the Sacramento River to the summit of the Sierra Nevada Mountains. Just above Auburn, between the Bear and American rivers, the county is very narrow, being about 8 miles across. Above Auburn it widens out into the two divides lying between the Bear River and the Middle Fork of the American River. These are known as the Dutch Flat or Railroad Divide, and the Forest Hill Divide. The southwestern portion is more regular in shape than the part just described. This section contains the foothill and level agricultural lands. Its shape is nearly a parallelogram, the southwest two thirds being on the plains proper, and the southeast one third being the foothill and fruit district.

Of the area, 810 square miles are mountainous, 450 foothills, and the remainder valleys. The entire extent faces toward the west, extending from an altitude of some 40 feet on the plains in the western portion to over 7,000 feet at its eastern boundary line, embracing nearly every variety of climate known in the State. At the eastern boundary, separating it from the State of Nevada, is Lake Tahoe, one of the most picturesque lakes in America. The topography of Placer County is as irregular as is its shape. Imagine the whole Atlantic coast from Labrador to Tallahassee incorporated into one county, and one will have a fair idea of what may be found in Placer, exaggerated as to size, but not as to the great variety of climate, elevation, soils, and resources. As to the latter, the whole Atlantic seaboard can hardly equal the endless variety to be found within the borders of this county, which rivals Florida in the quality of its oranges, excels New Jersey in peaches, equals the New England States in its granite quarries, and compares favorably with Maine in the quality of its lumber.

From an elevation of about 2,500 feet up to the summit of the mountains snow falls in the winter, light at the lower edge of the line, and increasing in depth as it ascends the Sierra. Here is a strip of territory from the snow line up to an elevation of 3,000 feet, particularly well adapted to the apple, the pear, and a great variety of vegetables.

The soil of the western or valley portion is of the same general alluvial composition as all the soil in the Sacramento Valley, and is well adapted to the growth of grain. Over 30,000 acres are annually devoted to wheat, barley, oats, and hay. The low foothills back of

Lincoln are excellent for the grape.

The soil of the valley lands is mostly a red loam, mixed with considerable clay in spots; that of the foothills is a gravelly red loam, in places light and sandy, and is excellent for the production of fruits. Further up the soil changes to a red character, with a slate bedrock. This, too, is very fertile. The agricultural region includes the valley and foothill lands all the way from the western boundary to an elevation above Colfax. The foothills everywhere possess a soil which only



needs cultivation. The granite soils around Newcastle are composed largely of clay, sand, soda, potash, lime, phosphorus, iron, and manganese. The constant decomposition that is going on appears to be of nearly endless duration, and of such a nature as to render the soil almost inexhaustible. Artificial fertilization has not yet been found necessary.

For an irrigation water supply, Placer has three sources—the Yuba, Bear, and American rivers. Including its branches, the Bear River irrigation ditch is 200 miles in length. This system has been increased in its capacity, and brings water from the Yuba River, so that an abundance is assured. There are several other canals, originally built

for mining, but now used for irrigation.

Placer County holds a foremost position among the fruit producers, and it is the most easterly of the counties in California. With the Central Pacific Railroad running the entire length of her territory, she is one day nearer the Eastern market than any other part of the State, a very large item in the shipping of green fruit. In her thermal belt fruit ripens earlier than in most other places in the State, another large advantage. Pears, plums, prunes, apples, apricots, cherries, persimmons, pomegranates, quinces, and figs all do well. Peaches have been grown for the past twenty-five years, and failure of a crop is unknown. Fine oranges are produced, and Placer holds a position beside Butte in the northern citrus belt. In the production of small fruits, berries, and table grapes, Placer holds a foremost place.

The largest cherry trees in the world are at the ranch of Robert Hector, from one of which has been picked as high as 3,000 pounds in one season. At the Pan-American Exposition Placer won gold medals for peaches, oranges, and grapes. An exhibit of fifty oranges averaged

twenty-four ounces in weight.

A lemon that was on exhibition at the Sacramento Chamber of Commerce measured 22 inches in circumference the small way, and weighed three and a half pounds.

Olive growing is a profitable industry. The principal orchards are provided with manufacturing plants and are producing a very fine

quality of oil.

Dairying and stock and poultry raising are extensive industries. Butter making is carried on in the summer, the mountain ranges providing plenty of natural feed; the butter is of a very fine quality.

Considerable quantities of vegetables are raised, not only for local

consumption, but also for shipment abroad.

Much sugar and yellow pine, fir, spruce, and cedar are found in the mountains, and the lumber output from that section has been very large for many years. Oak and scrub pine abound all over the foot-

hills, and fuel is plentiful.

Placer County ranks well up among the mining counties. Her average yearly contribution to the world's wealth is something above the million mark. The total production since the discovery of gold at Auburn, May 16, 1848, is estimated at much over \$75,000,000. The mining methods include drift, river, placer, and quartz. Placer's drift mines are among the largest in the world.

The granite quarries rank with the best in the United States. Nearly all the street curbing in San Francisco is from the Placer quarries,



while the State Capitol is an example of the value and beauty of foothill granite.

Potter's clay is found in abundance at Lincoln, from which is manufactured sewer pipe, tiling, pressed brick, architectural terra cotta, and glazed brick for interior decoration.

Placer County is a natural sanatorium. As a resort for patients suffering from pulmonary diseases, leading physicians say it has no equal on the Pacific coast. It is here patients find relief, and some of them are cured. The altitude is just right for people suffering from asthma or bronchial diseases.

STATISTICS OF PLACER COUNTY, 1909-10.

General Stat	istics.	1	Number	of Fruit	Trees and	Vines.
Area, 1,390 square miles.					Bearing.	Non-bearing.
Number of farms		1,027	Apple			3,175
Number of acres assessed	d .	667 100	Apricot			950
Value of country real est	ate 🖁	4,538,265	Cherry	• • • • • • • • •		2,690 3 9 5
Of improvements thereon	l	1,047,270	Lemon			
Of city and town lots		\$955,660	Nectarine			785
Of improvements thereon		1,409,315	Olive			1,180
Of personal property Total value of all property	tv i	\$1,641,585 \$9,777.045	Orange			6,490
Expended on roads, last		00,111,030	Peach			190,26 0
vear		\$47,900	Pear			19,120
year Expended for bridges, la	ist fis-	4	Plum			39,470
cal year		\$11,375	Prune			2,980
Number of miles of public	c roads	915	Quince	• • • • • • • •	. 1,980	350
Road levy per \$100, 1910. Value of county building		40c	Total fruit		1 401 965	967 945
Value of county building	8	\$260,000	Total fruit	• • • • • • • •	. 1,431,300	267,845
Irrigating ditches — mile		\$215,300				975
Railroads, steam—miles,	140 47	\$210,000	Walnut		. 370	
assessed value		3,419,543				
Railroads, electric - mile		, , , , , , , , , , , , , , , , , , , ,	Total nut	• • • • • • • •	. 6,310	975
assessed value		\$6,158	Grapevines (acres)		4,948
Electric power plants —	3; as-		(2,0 20
RESSECT VALUE		\$39,400	Fr	uits, Vege	tables, Etc.	
Electric power lines—mil	les, 90;	445 000			Total	
assessed value Number of acres irrigate		\$45,000 160,750	G		Production.	37.3
		100,100	Green— Apples		Pounds. 287,100	Value. \$4,890
Cereal Products	and Hay.		Apricots		317,900	13,740
Acres.	Bushels.	Value.	Blackberries			5,750
Wheat 15,940	175,340	\$141,740	Currants		. 4,960	470
Barley 9,340	149,440	115,000	Cherries		. 502,000	47,300
Oats 7,100	71,900	93,200	Figs			980
Total cereals. 32.380	396,680	\$349,940	Grapes	••••	. 1,859,300	49,200
	,	40 20,0 20	Lemons (box Loganberries			390 4,900
Live Stock In	-		Nectarines .			4,500 465
Cattle Doof	Number.	Value.	Oranges (box			59.275
Cattle—Beef	1,690 1,749	\$47,750 26,235	Pears			41,900
Stock	2,319	57,975	Peaches		.15,701,600	304,175
Thoroughbred—	2,010	01,010	Persimmons		. 16,900	1,140
Jersey	109	4,360	Plums			247,560
Calves	640	3,790	Quinces Raspberries			280 1,740
Swine	765	2,460	Strawberries	· · · · · · · · · · · ·	178,900	7,985
Horses-Thoroughbred	8 11	3,750	Tomatoes			3,160
Standard-bred Common	2,095	2,875 89,000	1			
Colts	2,033	5,950	Totals		33,605,570	\$795,800
Jacks and jennies	47	. 1,150			D	W-1
Mules	391	19,750	Dried— Almonds		Pounds. 6.740	Value. \$275
Sheep	19,600	58,800	Apples			220
Lambs	1,470	1,470	Figs		10,300	890
Common goats	1,260	1,260	Pears		. 18,400	750
Total stock	32,364	\$326,575	Peaches		. 81,400	2, <u>40</u> 0
Total stock Wool (pounds)	76,000	9,700	Prunes		. 19,760	790
	-	2,	Walnuts	• • • • • • • • •	4,300	215
Wines, Brandie	•	Walna	Totals		. 144.600	\$5,540
	Gallons. 137,400	Value. \$39,400	10 cours		. 221,000	40,010
Dry wines Sweet wines	119,700	28,300	i	Dairy I	ndustry.	
Brandy	8,450	7.670			. Production.	Value.
Vinegar	5,600	7560	Creameries .	4	79,700	\$18,150
Number of wineries, 2.	•		Butter (poun			2,000
•						

STATISTICS OF PLACER COUNTY, 1909-10-Continued.

Forest Pro	ducts.		Manufactories.	
Area of timber lands (acres)	and man nber), 5;	ufactories	Number Number Number No. Employee	f Value of Products. \$21,300 4,700 9,800 1,000 320,000 33,000 394,500
Miscellaneous	Products.		Manufactured Output.	
Flowers and plants (acres)	Pounds.	Value. \$30,000	Brick (thousand)	Quantity. 2,000 4,900

RIVERSIDE COUNTY.

Riverside County was formed in 1893 from the southwestern part of San Bernardino and the northern part of San Diego counties. It is about 200 miles long by 40 miles wide, and embraces most varied geographical and topographical features, climate, scenery, soil, agricultural, horticultural, and mineral resources. It contains within its borders one of the highest mountains of southern California and the greatest depression below sea level.

The principal rivers of the county are the Colorado, which forms its eastern boundary; the Santa Ana, having its head in the San Bernardino range of mountains, flowing through the northwestern part of the county, furnishing irrigation for a large area of land; the San Jacinto, having its source in the San Jacinto range, flowing through the San

Jacinto, Hemet, and Perris valleys, and forming Lake Elsinore.

While the progress of the county has been practically confined to its northwest corner, which embraces the largest orange growing district in the world, and is supplied by one of the best and most complete irrigating systems in the State, the entire western portion is being brought under cultivation from the rapid development of artesian wells.

Beaumont and Banning, two growing towns and prosperous communities of the "Pass country," are well known for their deciduous fruits, hay and grain crops, and stock interests. Further east the Coachella Valley is producing vegetables, melons, and cantaloupes extensively, which, on account of early maturity, reach the markets in advance of other localities. The valley has four trading points—Indio, Coachella, Thermal, and Mecca, all growing communities. The Government has two experimental stations in this valley for the propagation of the date palm, and already has trees in bearing. The excellence of the fruit proves this locality to be well adapted to this industry. Quite an acreage of eucalyptus is being planted, and spineless cactus is receiving some attention.

The Palo Verde country, in the extreme eastern portion and bounded by the Colorado River, is receiving a great deal of attention and prom-

ises to develop into a very prosperous agricultural community.

The central and greater part of the eastern portion of the county is desert, but known to be heavily mineralized with almost every known mineral—gold, silver, copper, iron, lead, tin, borax, soda, and nitrates. The high cost of freight, fuel, and scarcity of water, making prospecting dangerous, all combine to retard mining developments, but as transportation facilities increase mining will be one of the leading features of

the county.

The San Jacinto and Hemet valleys, situated about 45 miles southeast of Riverside City, at the base of the San Jacinto Mountains, are excellently adapted to diversified farming, and the foothills to stock grazing. The San Jacinto Valley is watered by numerous flowing wells and the Hemet Valley by the great Hemet dam, the largest piece of solid masonry in the West, forming a reservoir filled with pure mountain water from the snows of the San Jacinto Mountains, the supply of which is more than sufficient for all purposes and irrigation. The town of Hemet is one of the most prosperous of the county. Three miles distant is San Jacinto, one of the oldest towns in southern California, and

has maintained a steady growth from its farming, dairying, and lumber interests, the mountains adjacent being heavily timbered. A branch of the great Cawston Ostrich Farm is located here, and the town has a reputation as a health resort on account of its lithia and hot sulphur springs. The potato is one of the staples for which Hemet is famous. Alfalfa and broomcorn are grown extensively. All kinds of deciduous fruits do well, and quite an acreage of citrus fruit is in bearing.

The town of Elsinore, situated about 20 miles southwest on the shore of Lake Elsinore, is made prosperous from its varied products. Dressed stone, clay and clay products, honey, dried fruits, olives, olive oil and all kinds of farm products. It is famed as a health resort, the hot sulphur springs located on the north side of the lake being remarkable

for healing qualities in some forms of disease.

Perris is a thriving village situated about halfway between the city of Riverside and Hemet. The Perris Valley, including Alessandro and Moreno, is making wonderful progress. The soil is very fertile and the discovery and development of an underground lake with practically unlimited water supply has opened up new industries, and hundreds of acres of alfalfa are being sown. The eucalyptus industry is receiving its share of attention and quite an extensive acreage is being planted in these sections. Transportation is furnished by the Santa Fe Railway.

Corona, the second city in size in the county, is known for its lemon groves, which are among the best in the world, as well as its fine orange groves and its many manufacturing enterprises. Clay products comprise the manufacture fourth in importance in the United States and of importance in the county the clay industry is first, the deposits being

marvelous and of almost inexhaustible supply.

Riverside, the metropolis and county seat, is noted as being one of the most beautiful cities in California; has more miles of oiled macadam streets than any community of like size, and takes great pride in keeping them clean. It claims to be the greatest orange growing center in the world, the annual production being over six thousand car loads. It is a city of churches, all denominations being represented, together with its magnificent county buildings, public library, commodious public school buildings of architectural beauty; a bountiful water supply, electric railway system, electric and gas plants, cement works employing upward of three hundred men, station for three continental railway systems, and no saloons, are features which go to make up a happy and contented citizenship.

Arlington, a suburb of Riverside and contained in its municipality, is a progressive village and the seat of Sherman Institute, a Govern-

ment school for Indians.

The public school system of the county is very efficient and ample, there being sixty-five school districts, in eight of which are high schools.

STATISTICS OF RIVERSIDE COUNTY, 1909-10.

General Statistics.		General Statistics—Continue	ed.
Area 7,000 square miles, or 4,480,	,000 acres.	Number of miles of public roads	2,000
Number of acres assessed	1,177,553	Road levy per \$100, 1910 Value of county buildings	60c \$388,437
Value of country real estate	\$10,208,985 \$3,611,448	Irrigating ditches — miles, 132;	
Of improvements thereon Of city and town lots		cost	\$1,688,537
Of improvements thereon	\$3,358,200	Railroads, steam—miles, 210.369; assessed value	\$4,706,996
Of personal property	\$2,382,398	Railroads, electric—miles, 16.69;	
Total value of all property Expended on roads, last fiscal	\$22,218,835	assessed value	\$28,765
year	\$136,607	Electric power plants—1; as- sessed value	\$52,035
Expended for bridges, last fis-		Electric power lines—miles,	
cal year	\$ 6,203	16.5; assessed value	\$ 3,555

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STATISTICS OF RIVERSIDE COUNTY, 1909-10-Continued.

	Hay.	Wines, Brand	ies. Etc.	
Tons of 2,000 pound	ls.		Gallons.	Value.
Wheat 4,398 28	shels. Value. 5,282 \$39,936	Dry wines	161,500	\$120,550
Barley 66,855 715	,550 417,450	Sweet wines	225,000 96 ,000	170,000 144,000
Oats 3,170 36	.630 43.06 0	Number of wineries, 3		
Corn 50 2	2,250	leries, 1.	•	
Total cereals 74,473 782	\$502,696	Live Stock I	ndustry.	
	ons. Value.	l	Number.	Value.
	,400 \$600,834 ,710 297,240	Cattle—Beef	$\begin{array}{c} 330 \\ 3.210 \end{array}$	\$11,950 64,250
Grain nay 31,231 23		Stock	1,359	65,785
	,110 \$ 897,574	Thoroughbred-		
Number of Fruit Trees		Holsteins Jersey	$\begin{array}{c} 126 \\ 182 \end{array}$	$8,820 \\ 12,740$
	-bearing. Total. 4,524 6,282	Shorthorns	94	6.580
Apple 1,758 Apricot 44,726 4	2,606 87,332	Calves	569	6,489
Cherry 55	79 134	Swine	1,88 6 3	19,271 4,500
Fig	635 825 51,871 143,216	Standard-bred	1,395	187,850
Nectarine 21	75 96	Common	1,545	122,505
Olivo 52 720 2	0,147 72,849	Colts	$\begin{array}{c} \textbf{409} \\ \textbf{12} \end{array}$	20,970 7,160
Orange1,254,156 Peach 24,743	6,152 1,340,308 7,572 52,315	Mules	505	89,600
Pear 7,934	775 8,709	SheepLambs	$\frac{4,700}{2,120}$	20,100 6,240
Plum 190	500 690	Common goats	2,120 87	292
Prune 5,566 Quince 15	70 5,636 41 56			
•		Total value		\$6 55,102
Total fruit		Wool (pounds)	20,000	2,000
Almond 1,120 Walnut 2,975 1	31 1,151 .6,563 19,538	Poultry and	Eggs.	
wamut 2,010		l	Dozen.	Value.
Total nut	20,689	Chickens	3,902 44	\$28,290 285
Grapevines (acres) 2,850	27 2,877	Geese	25	299
	8	Turkeys Eggs	700	14,760
Fruits, Vegetables,	_	rggs	420,000	122,858
Total	al .	Total value		\$166,49 2
Green— Pour	nda. Value.	Power used for mills		
Annies 45	100 \$710	in county—Steam (nun (number), 8.	nber), 4; e	lectrical
Apricots 3,003	,000 27,995 2,500 125		5	
Blackberries 2 Beets 2	2,500 125 2,000 80	Miscellaneous	Products.	
	.000 00			Walna
Cabbage 56	,000 950	Bees (hives), number.	Pounds.	Value. \$31,089
Cabbage 56 Cherries 30	,000 950	Bees (hives), number. Beeswax	Pounds. 11,092 2,665	\$31,089 7 3 3
Cabbage 56 Cherries 30 Figs 6 Grapes 9.460	,000 950 ,000 2,500 ,000 120 ,000 73,600	Broomcorn	Pounds. 11,092	\$31,089
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8	,000 950 ,000 2,500 ,000 120 ,000 73,600	Beeswax Broomcorn Flowers and plants (acres)	Pounds. 11,092 2,665 10,000	\$31,089 733 750 7,000
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459	,000 950 ,000 2,500 ,000 120 ,000 73,600 ,355 24,538 ,765 1,325,647	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb	Pounds. 11,092 2,665 10,000	\$31,089 733 750 7,000 2,879
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 67 Oranges (boxes) 1,495	,000 950 ,000 2,500 ,000 120 ,000 73,600 ,355 24,538 ,765 1,325,647 ,500 12,875 ,006 2,137,530	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted	Pounds. 11,092 2,665 10,000 31/2 24,030 301,280	\$31,089 733 750 7,000 2,879 18,095
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 696	,000 950 ,000 2,500 ,000 73,600 ,365 24,538 ,765 1,325,647 ,500 12,875 ,006 2,137,530	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb	Pounds. 11,092 2,665 10,000	\$31,089 733 750 7,000 2,879
Cabbage 56 Cherries 30 Figs 9 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 696 Pears 575	,000 950 ,000 2,500 ,000 120 ,000 73,600 ,355 24,538 ,765 1,325,647 ,500 12,875 ,006 2,137,530 ,000 19,661 ,000 8,170	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton	Pounds. 11,092 2,665 10,000 31/2 24,030 301,280 45,900 125,000	\$31,089 733 750 7,000 2,879 18,095 4,590
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 696 Pears 575 Peaches 2,998 Plums 87	,000 950 ,000 120 ,000 120 ,000 73,600 ,355 24,538 ,765 1,325,647 ,500 12,875 ,006 2,137,530 ,000 19,601 ,000 8,170 ,000 14,260	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed	Pounds. 11,092 2,665 10,000 3½ 24,030 301,280 45,900 125,000 ories.	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 696 Pears 575 Peaches 2,098 Plums 87 Irish potatoes 270	,000 950 ,000 120 ,000 73,600 ,000 73,600 ,765 1,325,647 ,560 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,050 730 ,000 3,500	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto	Pounds. 11,092 2,665 10,000 334 24,030 301,280 45,900 125,000 ories. Number of	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducts.
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 696 Pears 575 Peaches 2,098 Plums 87 Irish potatoes 270 Sweet potatoes 25 Tomatoes 325	,000 950 ,000 120 ,000 73,600 ,385 24,538 ,765 1,325,647 ,500 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,050 3,500 ,000 3,500 ,000 500 ,000 9,500	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Bookbinderies	Pounds. 11,092 2,665 10,000 334 24,030 301,280 45,900 125,000 price. Number of	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducts.
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 686 Pears 575 Peaches 2,998 Plums 87 Irish potatoes 270 Sweet potatoes 25 Tomatoes 325 Cantalouves 1,500	,000 950 ,000 120 ,000 73,600 ,000 73,603 ,765 1,325,647 ,500 12,875 ,006 2,137,530 ,000 19,601 ,000 8,170 ,000 14,260 ,050 730 ,000 3,500 ,000 9,500 ,000 9,500	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto N Bookbinderies Brick 2 Cement 1	Pounds. 11,092 2,665 10,000 342 24,030 301,280 45,900 125,000 ories. Number of 2 18 375	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducts. \$8,000 28,000 214,500
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 696 Pears 575 Peaches 2,098 Plums 87 Irish potatoes 270 Sweet potatoes 25 Tomatoes 325 Cantaloupes 1,500	,000 950 ,000 120 ,000 73,600 ,385 24,538 ,765 1,325,647 ,500 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,050 3,500 ,000 3,500 ,000 500 ,000 9,500	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Bookbinderies 1 Brick Cement 1 Cigars	Pounds. 11,092 2,665 10,000 344 24,030 301,280 45,900 125,000 ries. Number of Employees. 18 375	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of rroducta. \$8,000 28,000 214,500 17,500
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 686 Pears 575 Peaches 2,998 Plums 87 Irish potatoes 270 Sweet potatoes 25 Tomatoes 325 Cantalouves 1,500	,000 950 ,000 120 ,000 120 ,000 73,600 ,855 24,538 ,765 1,325,647 ,500 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,050 730 ,000 3,500 ,000 9,500 ,000 9,500 ,000 4,500 ,000 4,500	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Bookbinderies 1 Brick Cement 1 Cigars	Pounds. 11,092 2,665 10,000 334 24,030 301,280 45,900 125,000 ories. Number of Employees. 6 18 375 175 175	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducts. \$8,000 214,500 17,500
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 696 Pears 575 Peaches 2,998 Plums 87 Irish potatoes 270 Tomatoes 325 Cantaloupes 1,500 Watermelons 700 Total value Dried Pour Pour	,000 950 ,000 120 ,000 73,600 ,000 73,600 ,355 1,325,647 ,500 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,050 3,500 ,000 3,500 ,000 500 ,000 4,500 ,000 4,500	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Manufacto I Bookbinderies Brick Cement Cigars Crushed rock Confectionery Foundries and iron	Pounds. 11,092 2,665 10,000 314 24,030 301,280 45,900 125,000 cries. Number of Employees. 6 18 375 2 175 375 375	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducta. \$8,000 214,500 17,500
Cabbage 56 Cherries 30 Figs 9,460 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 696 Pears 575 Peaches 2,098 Plums 87 Irish potatoes 25 Tomatoes 325 Cantaloupes 1,500 Watermelons 700 Total value Dried— Dried— Pour Almonds Almonds 130	,000 950 ,000 120 ,000 73,600 ,000 73,600 ,355 1,325,647 ,500 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,050 3,500 ,000 3,500 ,000 500 ,000 4,500 ,000 4,500	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Bookbinderies Brick Cement Cigars Confectionery Foundries and iron works	Pounds. 11,092 2,665 10,000 301,280 45,900 125,000 ories. Number of 2 18 3 75 2 7 3 175 3 21	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducts. \$8,000 214,500 17,500 143,500
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 696 Pears 575 Peaches 2,098 Plums 87 Irish potatoes 270 Sweet potatoes 25 Cantaloupes 1,500 Watermelons 700 Total value Dried— Almonds 130 Apricots 352 Onions 1	,000 950 ,000 120 ,000 120 ,000 73,600 ,355 24,538 ,765 1,325,647 ,500 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,000 3,500 ,000 3,500 ,000 500 ,000 500 ,000 4,500 ,000 4,500 ,000 4,500 ,000 3,500 ,000 4,500 ,000 4,500	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Manufacto Cement Cigars Crushed rock Confectionery Foundries and iron works Server Stroke Server Server	Pounds. 11,092 2,665 10,000 314 24,030 301,280 45,900 125,000 2ries. Number of of the control of	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducta. \$8,000 214,500 17,500
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 686 Pears 575 Peaches 2,098 Plums 87 Irish potatoes 270 Sweet potatoes 25 Cantaloupes 1,500 Watermelons 700 Total value Dried— Dried— Pour Almonds Almonds 130 Apricots 352 Onions 1 Tears 15	,000 950 ,000 120 ,000 120 ,000 73,600 ,355 24,538 ,765 1,325,647 ,500 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,050 730 ,000 3,500 ,000 9,500 ,000 9,500 ,000 4,500 ,000 4,500 ,000 33,697,431 ,000 33,697,431 ,000 31,200 ,200 31,230 ,200 240	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Bookbinderies 1 Brick 2 Cement 1 Cigars 2 Crushed rock 2 Confectionery Foundries and iron works 1 Sewer pipe 2 Pressed firebrick	Pounds. 11,092 2,665 10,000 314 24,030 301,280 45,900 125,000 ries. Number of Employees. 18 375 17 17 110	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducts. \$8,000 214,500 17,500
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 686 Pears 575 Peaches 2,098 Plums 87 Irish potatoes 270 Sweet potatoes 25 Cantaloupes 1,500 Watermelons 700 Total value 700 Dried Pour Almonds 130 Apricots 352 Onions 1 Pears 15 Pears 15 Pears 15 Pears 15 Pears 250	,000 950 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 12,875 ,006 2,137,530 ,000 14,260 ,000 14,260 ,000 3,500 ,000 3,500 ,000 9,500 ,000 9,500 ,000 4,500 ,000 3,600 ,000 3,600 ,000 3,600 ,000 15,600 ,000 3,600 ,000 3,800 ,000 3,840 ,000 10,000	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Manufacto Manufacto Cement Cigars Crushed rock Confectionery Foundries and iron works Isewer pipe Pressed firebrick Planing mills 2	Pounds. 11,092 2,665 10,000 314 24,030 301,280 45,900 125,000 ries. Number of Employees. 4 375 2,175 3,775 3,175 3,175 4,170 4	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducta \$8,000 214,500 115,500 143,500 146,000 181,000
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 696 Pears 575 Peaches 2,098 Plums 87 Irish potatoes 270 Sweet potatoes 25 Cantaloupes 1,500 Watermelons 700 Watermelons 700 Total value 130 Dried- Pour Almonds 130 Apricots 352 Onions 15 Pears 15 Pears 15 Peaches 72 Prunes 25 Raisins 120	,000 950 ,000 120 ,000 120 ,000 73,600 ,355 24,538 ,785 1,325,647 ,500 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,000 9,500 ,000 9,500 ,000 9,500 ,000 4,500 ,000 4,500 ,000 15,600 ,000 3,500 ,000 3,600 ,000 3,500 ,000 3,500 ,000 4,500 ,000 15,600 ,000 15,600 ,000 3,840 ,000 3,840 ,000 10,000	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Manufacto Manufacto Cement Cigars Crushed rock Confectionery Foundries and iron works 12 Sewer pipe 2 Pressed firebrick Planing mills Artificial stone—Pipe Elocks	Pounds. 11,092 2,665 10,000 344 24,030 301,280 45,900 125,000 ries. Number of o. Employees. 18 375 21 375 375 3175 3175 3175 3177 3110 3877	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducta \$8,000 214,500 14,500 145,000 146,000 181,000 22,400 22,400 20,500
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 696 Pears 575 Peaches 2,098 Plums 87 Irish potatoes 270 Sweet potatoes 25 Cantaloupes 1,500 Watermelons 700 Watermelons 700 Total value 130 Dried- Pour Almonds 130 Apricots 352 Onions 15 Pears 15 Pears 15 Peaches 72 Prunes 25 Raisins 120	,000 950 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,000 9,500 ,000 9,500 ,000 9,500 ,000 15,600 ,000 15,600 ,000 15,600 ,000 15,600 ,000 15,600 ,000 15,600 ,000 15,600 ,000 15,600 ,000 15,600 ,000 15,000 ,000 15,000 ,000 15,600 ,000 15,600 ,000 15,000 ,000 10,000 ,000 3,500 ,000 10,000 ,000 3,500	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Manufacto Monufacto M	Pounds. 11,092 2,665 10,000 344 24,030 301,280 45,900 125,000 ories. Number of 2 18 375 3 175 3 175 3 175 4 110 4 65 8 87 7 110	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducta. \$8,000 214,500 145,000 145,000 146,000 181,000 88,000 22,400 20,500 24,975
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 696 Pears 575 Peaches 2,098 Plums 87 Irish potatoes 270 Sweet potatoes 25 Cantaloupes 1,500 Watermelons 700 Watermelons 700 Total value 130 Dried- Pour Almonds 130 Apricots 352 Onions 15 Pears 15 Pears 15 Peaches 72 Prunes 25 Raisins 120	,000 950 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,000 3,500 ,000 9,500 ,000 20,000 ,000 4,500 ,000 3500 ,000 3500 ,000 3500 ,000 3500 ,000 3500 ,000 3500 ,000 32,000 ,000 32,000 ,000 33,697,431 ,000 15,600 ,000 30,000 ,000 31,230 ,200 240 ,000 3,500 ,000 3,500 ,000 3,500 ,000 3,500 ,000 3,500 ,000 3,500 ,000 3,500	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Manufacto Manufacto Manufacto Cement 1 Cigars 2 Crushed rock 3 Confectionery Foundries and iron works 2 Ice 1 Sewer pipe 2 Pressed firebrick Planing mills 2 Artificial stone—Pipe Blocks 2 Granite 2 Granite 1 Cotton gin 1	Pounds. 11,092 2,665 10,000 344 24,030 301,280 45,900 125,000 ories. Number of 2	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducta \$8,000 214,500 14,500 145,000 146,000 181,000 22,400 22,400 20,500
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 696 Pears 575 Peaches 2,098 Plums 87 Irish potatoes 270 Sweet potatoes 25 Cantaloupes 1,500 Watermelons 700 Total value Pour Almonds 130 Apricots 352 Onions 1 12 Pears 15 15 Peaches 72 2 Prunes 250 2 Raisins 120 12 Walnuts 12 12 Total value Dairy Industry	,000 950 ,000 120 ,000 120 ,000 73,600 ,355 24,538 ,765 1,325,647 ,500 12,875 ,006 2,137,530 ,000 19,601 ,000 3,500 ,000 3,500 ,000 9,500 ,000 9,500 ,000 9,500 ,000 4,500 ,000 15,600 ,000 15,600 ,000 31,230 ,200 240 ,000 1,000 ,000 1,000 ,000 1,000 ,000 1,000 ,000 1,500	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Manufacto Monufacto M	Pounds. 11,092 2,665 10,000 34,24,030 301,280 45,900 125,000 ories. Number of 2	\$31,089 733 750 7,000 2,879 2,879 4,590 22,500 Value of Froducts. \$8,000 214,500 17,500
Cabbage 56 Cherries 30 Figs 9 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 686 Pears 57 Peaches 2,098 Plums 87 Irish potatoes 20 Sweet potatoes 25 Cantaloupes 1,500 Watermelons 700 Total value Pour Dried Pour Almonds 130 Apricots 352 Onions 1 Peaches 72 Prunes 250 Raisins 120 Walnuts 12 Total value Dairy Industry No. Produc	,000 950 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,000 3,500 ,000 9,500 ,000 9,500 ,000 4,500 ,000 15,600 ,000 15,600	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Bookbinderies Brick Cement Cigars Crushed rock Confectionery Foundries and iron works Ice 18ewer pipe 2Pressed firebrick Planing mills Artificial stone—Pipe Blocks Granite Cotton gin Manufactured	Pounds. 11,092 2,665 10,000 344 24,030 301,280 45,900 125,000 ries. Number of 2 18 375 2 175 2 176 2 177 110 65 8 7 2 170 110 65 8 7 6 7 6 9 60 Cutput.	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducta. \$8,000 214,500 143,500 143,500 146,000 181,000 22,400 22,400 20,500 24,975
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 686 Pears 575 Peaches 2,998 Plums 87 Irish potatoes 25 Contatoes 325 Cantaloupes 1,500 Watermelons 700 Total value Pour Almonds Apricots 362 Onions 1 Pears 15 Pears 15 Pears 15 Pears 15 Raisins 120 Walnuts 12 Total value Dairy Industry No. Product 4	,000 950 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,000 3,500 ,000 9,500 ,000 9,500 ,000 4,500 ,000 15,600 ,000 15,600	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Manufacto Manufacto Manufacto Cement 1 Cigars 2 Crushed rock 3 Confectionery Foundries and iron works 2 Ice 1 Sewer pipe 2 Pressed firebrick Planing mills 2 Artificial stone—Pipe Blocks 2 Granite 2 Granite 1 Cotton gin 1	Pounds. 11,092 2,665 10,000 314 24,030 301,280 45,900 125,000 ories. Number of Employees. 6 18 375 175 175 110 65 8 7 117 110 0 Output.	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducta. \$8,000 214,500 145,000 145,000 146,000 141,000 146,000 224,975
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 686 Pears 575 Peaches 2,098 Plums 87 Irish potatoes 210 Sweet potatoes 25 Cantaloupes 1,500 Watermelons 700 Total value 130 Dried Pour Almonds 130 Apricots 352 Onions 1 10 120 Peaches 72 Prunes 250 Ralsins 120 Walnuts 12 Total value 12 Dairy Industry No. Produc Creameries 4 Butter (pounds) 471	,000 950 ,000 120 ,000 120 ,000 73,600 ,355 24,538 ,765 1,325,647 ,500 12,875 ,006 2,137,530 ,000 19,601 ,000 3,500 ,000 3,500 ,000 9,500 ,000 9,500 ,000 9,500 ,000 4,500 ,000 15,600 ,000 15,600 ,000 31,230 ,200 240 ,000 1,000 ,000 1,000 ,000 1,000 ,000 1,000 ,000 1,500	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Bookbinderies IBrick Cement Cigars Crushed rock Confectionery Foundries and iron works Ice Pressed firebrick Planing mills Artificial stone—Pipe Blocks Granite Cotton gin Manufactured Brick Cement Cigars Confectionery Flaning mills Artificial stone—Pipe Blocks Confectionery Flaning mills Artificial stone—Pipe Blocks Cement (tons) Cigars	Pounds. 11,092 2,665 10,000 344 24,030 301,280 45,900 125,000 ories. Number of 6 2 18 375 2 7 175 3 175 4 170 110 2 65 2 8 7 9 Output.	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducta. \$8,000 214,500 145,000 145,000 146,000 141,000 146,000 224,975
Cabbage 56 Cherries 30 Figs 6 Grapes 9,460 Grape fruit 8 Lemons (boxes) 459 Onions 676 Oranges (boxes) 1,495 Olives 686 Pears 575 Peaches 2,098 Plums 87 Irish potatoes 210 Sweet potatoes 25 Cantaloupes 1,500 Watermelons 700 Total value 130 Dried Pour Almonds 130 Apricots 352 Onions 1 Peaches 72 Prunes 250 Raisins 120 Walnuts 12 Total value 12 Dairy Industry No. Produc Creamerles 4 Butter (pounds) 471	,000 950 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 120 ,000 12,875 ,006 2,137,530 ,000 19,601 ,000 14,260 ,000 3,500 ,000 3,500 ,000 4,500 ,000 4,500 \$3,697,431 ds. Value. ,000 15,600 ,000 3,500	Beeswax Broomcorn Flowers and plants (acres) Honey—Comb Extracted Alfalfa seed Cotton Manufacto Bookbinderies Brick Cement Crushed rock Confectionery Foundries and iron works Ice Pressed firebrick Planing mills Artificial stone—Pipe Blocks Granite Cotton gin Manufactured Brick Cement (tons)	Pounds. 11,092 2,665 10,000 314 24,030 301,280 45,900 125,000 ories. Number of Employees. 18 375 2,7 175 3,175 3,175 4,110 5,21 8,87 17 110 65 8,87 7 17 110 00tput.	\$31,089 733 750 7,000 2,879 18,095 4,590 22,500 Value of Froducts. \$8,000 214,500 117,500

SACRAMENTO COUNTY.

Sacramento County, with its 987.66 square miles (or 632,108 acres) of area, is one of the largest in the Sacramento Valley, as well as one of the oldest in the State, having been organized by the first legislature. Its principal cities and towns are: Sacramento, Folsom, Galt, Elk Grove, Fair Oaks, Courtland, Oak Park, Walnut Grove, Isleton, Franklin, and Cosumnes.

Its area is almost all rich, alluvial plain, ranging from 30 to 125 feet above sea level, rising gradually from the rivers to meet the low rolling

foothills of the Sierra Nevada Mountains.

The Sacramento River is the longest and largest in the State, and is navigable from Red Bluff to San Francisco Bay, giving unexcelled transportation facilities, landing freight on deep water vessels at a minimum of cost. The river traverses the western boundary of the county in a tortuous manner for about ninety miles across the rich bottom or delta lands, cutting them up into numerous small and several large islands, said to be the richest land in the world.

The American River rises in the upper Sierra and enters the county at the northeast corner among the low foothills, flowing in a southwesterly direction and emptying into the Sacramento just north of the city

of Sacramento.

In addition to the numerous rivers and streams, there is underlying the entire area of the county an inexhaustible supply of pure and excellent water, which rises to within a few feet of the surface, and is easily appropriated by means of a light lifting power, insuring an unlimited

supply for irrigation and domestic purposes.

The natural fish in the rivers are salmon, sturgeon, pike, perch, hardheads, and dace. Those planted are striped bass, black bass, shad, and three kinds of catfish. The only fish propagated is the salmon, in the headwaters of the Sacramento. All of the planted fish have multiplied satisfactorily. In the open season large numbers of salmon and other fish are taken and sold in the local and San Francisco markets.

In the line of game are geese, ducks, quail, curlew, doves, and larks. All but the geese are protected. The ducks are mostly migratory. Of the non-migratory species are the mallard, spoonbill, and wood duck.

General John A. Sutter settled in Sacramento in 1837, and was the first agriculturist in the Sacramento Valley. He received the concession of a large tract of land from the Mexican government, and located a fort near the junction of the Sacramento and American rivers. His first wheat field was a portion of the land now covered by the city of Sacramento. He planted the first fruit trees and grapevines, and demonstrated the unsurpassed fertility of the soil of the great valley to the north.

The richness of the soil is due largely to the fact that in remote ages the entire Sacramento Valley and a section of the foothills, to an altitude of several hundred feet, were portions of the bed of an inland sea, and that into this sea the washings of the surrounding mountains were precipitated, forming what has been shown by analyses to be exceptionally fertile soil.



Sutter's demonstration of the productiveness of the soil encouraged others to continue the work, and enormous profits were made on all farm products, although the greatest areas of the county and valley were devoted to grains, such as wheat, barley, etc. Later, settlers undertook the planting of large orchards, and as there was a constantly increasing demand in the eastern markets for California fruits, the acreage was increased in an attempt to keep pace with the demand. Portions of Sacramento County were found to be especially adapted to the growth of oranges and other citrus fruits, oranges ripening from four to six weeks earlier than those of southern California, and large areas were and are being planted. Fruits of all kinds, citrus, deciduous, natives of the temperate, semi-tropic, and many of those of the tropic zones, are successfully grown on the lands of the county. largest Tokay vineyard in the world is in Sacramento County. largest cherry orchard in the State is projected and being planted, and there are still thousands of acres awaiting the hand of the orchardist.

Strawberries are marketed here eleven months in the year, and fresh vegetables are obtainable the year round. The largest asparagus beds in the world are within the confines of Sacramento County. Alfalfa grows luxuriantly without irrigation on the rich bottom lands, produc-

ing from four to eight tons to the acre.

Apricots ripen early, and of all the countries in the world, California stands alone as having made a thorough success of the cultivation of this delicious fruit, and in Sacramento County it reaches its finest development in size and flavor and productiveness.

The almond, one of the most difficult of all crops because of its susceptibility to frost, is exceptionally profitable here, and a large colony at Antelope has given its entire attention to this most profitable nut.

The English soft-shell walnut has been demonstrated to be a profitable crop, and it is expected that in the next few years large acreages will be devoted to its cultivation.

The olive is constantly increasing in favor and netting splendid returns to the growers. Some of the finest olive lands in the world are in the confines of the county.

The dry atmosphere is especially suited for the drying of fruits, and the article so produced is regarded as first-class in the markets of the

world.

The farmer is sure of a good market for all of his surplus fruit, as the California Fruit Canners' Association and the Central California Canneries are located within the county, and handle enormous quantities of fruits and vegetables. These canneries operate a longer period of the year than in any other section of the United States, beginning on asparagus the latter part of March and ending the latter part of November on beans and tomatoes.

The river districts are the most prolific producers of beans in the world, and great quantities are shipped annually to the East. Broomcorn, Egyptian corn, potatoes (both sweet and Irish), asparagus; in fact, all kinds of vegetables thrive and yield splendid profits, many of them having two growing seasons. It is quite common to market two crops from the same land every year.

Along the Sacramento, American, and Cosumnes rivers are the most productive hop fields in the United States. Hop culture on this coast dates back to 1858. It was early demonstrated that the soil and cli-

mate of Sacramento County are unsurpassed for hop culture, and it is the only place known where a crop of from 1,000 to 2,000 pounds per acre can be grown the first year the roots are planted. It is a common occurrence to grow 2,000 to 3,000 pounds on an acre of ground, and in some instances 4.000.

Sacramento County presents splendid opportunities to the live stock breeder and the dairyman. There are a number of large creameries in the county and the largest and most modern dairy on the coast is located here. The climate is so temperate and mild that animals remain in the open air practically unsheltered the year round without hardship. The soil, because of its fertility, is peculiarly adapted to the growth of forage crops, especially alfalfa, which is at the same time one of the cheapest of stock feeds.

Hogs are raised generally by the farmers, and pedigreed Poland China, Berkshire, and Essex swine are bred quite extensively, and have

proven very profitable.

Poultry raising has steadily increased in importance in the last few years. Elk Grove, Galt, and Folsom are among the principal poultry raising districts, and in the outskirts of Sacramento City this has been

made a specialty by many with profit.

There are a number of wineries in the county. The output is shipped all over the world, but is principally disposed of in the United States, Central America, and the islands. The port is not heavy in body nor dark in color, but is delicate and light, having great character, and resembling closely the light, high-grade ports of Portugal. The county has a great reputation for fine sherry.

Many new industries are augmenting the large list of those in the county, notably among which are the Sacramento Soap Factory, two brick factories, and several minor ones. Negotiations have been closed, recently, for the establishment of a factory for the manufacture of auto-

modiles.

The largest rock-crushing plant in the world is located in the county, supplying many thousands of tons of crushed rock for the many uses made of it.

Sacramento is the railroad center of the State, and many new lines are either building or projected, radiating in all directions from the capital city, the home of the main shops of the Southern Pacific and Western Pacific systems. Splendid interurban service from Sacramento to Chico is given by the Northern Electric Railway Company; and by the Central California Traction Company, also an electric line, from Sacramento to Stockton.

The Southern Pacific and California Transportation Company operate passenger, as well as freight steamers, touching the various river points. Several of these steamers are palatial in their fittings, providing every comfort for the passenger, and this mode of travel is deservedly popular. Several minor companies operate freight steamers not only to San Francisco, but north as far as Red Bluff, giving low transportation rates to all points touched by the river.

In the splendid rail and water transportation facilities (having two great transcontinental lines passing through the city and being connected with the third, the Santa Fe, by the Central California Traction Company, at Stockton, giving competing rates to all points East), Sac-

ramento is endowed with advantages equaled by no other city on the coast. Practically unlimited electrical power is generated in the foothills and high Sierra and delivered into the city by the Great Western Power Company and the Sacramento Electric, Gas and Railway Company for factory, heating, lighting, and street railway purposes, at a low cost.

Situated on the east bank of the Sacramento River, 90 miles distant by rail from San Francisco, the seat of state and county government, the city is rapidly taking first place as a commercial center, having some of the largest jobbing houses on the coast, and splendid retail stores catering to the wants of the residents of California, southern Oregon, and Nevada. It is the largest mail-order center west of Chicago, practically controlling this branch of the trade.

The magnificent State Capitol is one of the most symmetrical in outline of any in the United States. The building is located in a beautiful park of thirty-five acres in the heart of the city. This park is unique, containing over three hundred varieties of trees and shrubs from every known climate of the globe, a practical demonstration of the remarkable

climate of this section of the State.

The city owns the finest art gallery in the West. Sutter's Fort has been restored to the same condition as when built by the general in 1839, and stands as a testimonial of the hardships endured by the early settlers. The fort is situated in a park of four acres in extent and is of intense interest to tourists. New buildings are springing up on every hand; buildings that would be a credit to cities double the size. The last Federal census shows an increase of over 52 per cent over the report of the last enumeration. The new high school building has recently been completed at a cost of a quarter of a million of dollars. Churches, educational facilities, and amusement features are unsurpassed. The Federal building, of red sandstone, costing \$200,000, accommodates the post office, internal revenue, and land offices, and the weather bureau station. The water works are the property of the city. Natural gas wells in the city yield an abundance of gas for domestic purposes, heating, and cooking.

The climate is particularly adapted to outdoor life. One can drive in any direction and wind through beautiful country of vineyards, orchards, and fields, and lands covered with beautiful natural oaks. Where one wants a day's pleasure beyond the limits of the county, it is an easy matter to ride on the trains from roses to snow in the high

Sierra.

Over one hundred and four miles of oil-macadam roads have been constructed in the past two years, making arteries radiating in all directions to the county's boundaries. These roads are as level as a table, and constructed for years of service.

STATISTICS OF SACRAMENTO COUNTY, 1909-10.

SIAIISIICS OF BACKAR	ENIO COUNTI, 1909-10.	
General Statistics.	Fruits, Vegetables, Etc.	
Area 987.66 square miles, or 632,108 acres.	Total	
Normalian of farmer	Production.	Value.
Number of acres assessed 610,720	Green—Pounds.	\$10,000
Value of country real estate \$13.934.430	Apples	32,000
Of improvements thereon \$1,874,320	Asparagus 20,000,000	200,000
Of city and town lots \$3,701,500	Blackberfies 100,000	650
Of improvements thereon \$1.479.410	Blackberries	2,500,000
Of personal property \$2,894,755	Beets 1,500,000	23.500
Of personal property \$2,894,755 Total value of all property \$58,620,075 Expended on roads, last fiscal	Cabbage 3,500,000 Celery 300,000	33,000
year\$512,990	Celery 300,000	5,800 750
Expended for bridges, last fis-	Cabbage 3,500,000 Celery 300,000 Cauliflower 15,500 Corn 85,000	750
cal year	Corn 85,000	1,875 $12,400$
Road levy per \$100, 1910 47c	Currants	16,600
Value of county buildings \$477,995 Irrigating ditches, cost \$117,500	Cherries	5,500
Irrigating ditches, cost \$117,500	Gooseberries 28.000	2,000
Irrigating ditches, cost \$117,500 Railroads, steam—miles, 147.96;	Grapes 28,000,000	155,9 00
	Grape fruit 5,300	5 50
Railroads, electric—miles, 49.2; assessed value \$87,630 Electric power plants (number) 3 Electric power lines (miles) 63	Cherries 225,500 Figs 150,000 Gooseberries 28,000 Grapes 28,000,000 Grape fruit 5,300 Limes (boxes) 6,500 Lemons (boxes) 24,000	25,000
Electric power plants (number)		96,000
Electric power lines (miles) 63	Loganberries 9,900,000	1 200
	Loganberries 9,900,000 Nectarines 25,000 Onions 35,000,000	200 000 1,200 525,000
Cereal Products and Hay.	()rangag (hayag) 45 km	46,000 3,700 1,500,000 125,000
Tons of 2,000 pounds. Acres. Tons. Value.	Olives 125,000	3,700
Wheat 40,000 12,500 \$225,000	Pears 22,000,000	1,500,000
Wheat	Peaches 15,000,000	125,000
Oats100.500 250.000 75.000		10,000
Rye 450 125 4,500	Persimmons 2,000	185 $125,000$
Corn 700 200 6.000	Persimmons 2,000 Plums 8,100,000 Irish potatoes 100,000,000	900,000
Buckwheat 100 25 750	Sweet potatoes 65,000	700
FD-4-11- 1F4 0F0 40 0F0	Prunes 6,250,000	100,000
Total cereals154,250 43,850 \$486,250	Chilinges 2 100	25
Alfalfa hay 45,000 200,000 \$2,000,000	Raspberries 75.000.000	102,500
Grain hay 33,500 45,000 402,000	Strawberries 15.200.000	250,000
Total hay 78,500 245,000 \$2,402,000	Tomatoes 7,000,000	92.500
	Totals	\$8,553,330
Wines, Brandies, Etc.		
Gallons. Value.	Dried— Pounds.	Value. \$100,000
Dry wines 400,000 \$60,000 Sweet wines 200,000 360,000 Beer (barrels) 160,000 1,200,000	Almonds	3,500
Sweet wines 200,000 360,000 Beer (barrels) 160,000 1,200,000 Brandy 10,000 15,000	Apples 60,500 Apricots 424,800	15,500
Brandy 150,000 1,200,000 Brandy 150,000	Beans 14,000,000	2,000,000
Grape juice 5,000 2,500	Apricots 424,800 Beans 14,000,000 Chestnuts 12,500	1,150
Number of wineries, 10; number of dis-	Figs 85,000	2,550
tilleries, 10; number of breweries, 2.	Figs 85,000 Nectarines 5,000 Onions 34,900,000 Pears 400,000	325
	Onions 34,900,000	375,000 18 500
Dairy Industry.	Pears 400,000 Peaches 2,100,000	16,500 9,750 7,800
Production. Value.	Pess 168.500	7.800
Butter (pounds) 2,730,000 \$950,000 Cheese (pounds) 1,550,000 175,000	Peas 168,500 Plums 1,400,000 Prunes 1,250,000 Poletas 500,000	85,000
	Prunes 1,250,000	40.000
Creameries, 6; skimming stations, 5.	Italisiis	13,000
Number of Fruit Trees and Vines.	Walnuts 33,500	5,500
Bearing, Non-bearing, Total.	Totals	\$2,599,075
Apple 27 000 500 27 500		• • •
Apricot 40.000 20.000 60.000	Canned— Cases. Apples	Value. \$25,000
Cherry 35,000 5,000 40,000	Apples	56 000
Fig 4,000 500 4,500 Lemon 6,000 500 6,500	Blackberries 6,000	56,000 33,000 20,000
Nectarine 1,200 250 1,450	Beans 5,000	20,000
Olive 28,000 3,000 28,000	Cherries 16.000	50.000
Orange 60,000 5,500 65,500	Grapes 23,000	66,000
Peach 145,000 28,000 173,000	Grapes 23,000 Pears 7,000 Peaches 10,000	66,000 225,000 300,000
Pear 340,000 20,000 360,000	Peaches	55,000
Plum 100.000 12.000 112.000	Plums 25,000 Raspberries 8,500	55,000 18,500
Prune 65,000 9,500 74,500 Quince 1,150 200 1,350	Strawberries 11,500	40,500
Other kinds 12,000 1,000 13,000	Strawberries 11,500 Tomatoes 90,000	360,000
Other Rings 12,000 1,000 13,000	Asparagus	1,380,000
Total fruit 861,350 105,950 967,300	Squash 10,000	25.000
Almond 72,000 8,000 80,000	Pumpkin 10,000	25,000
Chestnut 1,500 500 2,000	Motola 647 FOO	
Pecan 2,700 950 3,650	Totals 647,500	\$2,679,000
Wainut 6.000 1.000 7.000	Fish Industry.	
Other nuts 5,000 1,000 6,000		Value.
	Pounds.	
M-1-1	Salmon 835,200	\$88,500
Total nut 87,200 11,450 98,650		\$88,500 72,000
Total nut 87,200 11,450 98,650 Grapevines 400,000 25,000 425,000 Berries, acres. 5,000 1,500 6,500	Salmon	\$88,500 72,000 \$160,500

STATISTICS OF SACRAMENTO COUNTY, 1909-10.

Live Stock Industry.	Manufactories—Continued.
Cottle Boof Number. Value.	Number of V thue of
Cattle—Beef	
Dairy Cows—Graded 14,025 325,000	1 2 410,000
Swine 57,500 287,500	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Horses—Thoroughbred 300 450 000	Confectionery 10 225 150,000
Standard-bred 1,670 334,000	Cooper-shops 2 12 35,000
Common	Crackers 2 42 150,000
Colts 4,200 40,000	Electrical supplies 2 12 150,000
Jacks and jennies 300 10,000	Flouring mills 4 150 2.000.000
Mules 3,000 600,000	Foundries and iron
Sheep 51,452 205,710	works 5 45 85,000
Common goats 300	Furniture 3 45 75,000
Wool (pounds) 300,000 Mohair (pounds) 25,000	Jewelry 7 4 8,500 Leather goods 7 80 130,000
22011411 (pounds) 20,000	
Poultry and Eggs.	Machinery 13 180 500,000 Malt 6 35 150,000
Dozen. Value.	Meat products—
Chickens	
Ducks 400 2,400	Lard 75,000
Geese 350 5.100	
Turkeys 2,200 55,000	
Eggs 1,490,000 300,000	Olive oil 2,500
PR 4 3 3	Pickles 4 15 22,000
Total value \$1,882,800	Pickled olives 15,090
Forest Products.	Iron pipe
Area of timber lands Value.	Planing mills 11 225 500,000 Potteries 3 15 35,000
(0.000)	Soap 1 25 150,000
Charcoal (sacks) 35,000 \$15,000	
Fuel, wood (cords) 10,000 70,000	
Power used for mills and manufactories	Syrups and extracts. 3 27 65,000
in county—Electrical (16,000 horse-power).	Tin and galvanized
in county Dicetifeat (10,000 Horse-power).	iron 10 170 250,000
Miscellaneous Products.	Wood turning and
Pounds. Value.	carving 4 12 20,000 Sauerkraut 5,000
Bees (hives), number. 2,200 \$6,100	
Beeswax 2,000 520	Paste 2 15 50,000
Flowers and plants	Manufactured Output
(acres) 50 50,000	Manufactured Output.
Honey 75,000 10,000	
Hops 3,833,060 459,967	Brick 20,000,000
Alfalfa seed 60,000	Brooms (dozen) 8,000
Manufactories.	Cement (tons)
	Cigars (thousand) 5,500 Crackers (pounds) 18,000
Number of Value of No. Employees. Products.	Flour (barrels)
Bookbinderies 2 20	Malt (tons) 3,200
Paper boxes 1 8	Hides (pounds) 725.000
Wood boxes 2 13	Lard (pounds) 500.000
Brick 2 88 \$150,000	Meat packed (pounds) 20,000
Brooms 2 22 40,000	
Carriages and	Olive oil (gallons) 5,000
ragons 7 120	Pickles (gallons) 3,000,000

SAN BENITO COUNTY.

The county extends from northwest to southeast about sixty miles with a general breadth of twenty miles. The Gabelan Mountains on the southwest constitute the dividing line from Monterey County, and at their base flows northerly, the entire length, the San Benito River. Farther east the Tres Pinos forms another valley.

Irrigation is by gravity from the San Benito River and the Tres Pinos. The system is being rapidly improved by the San Benito Land and Water Company. This is supplemented by an extensive system of pumping from an apparent inexhaustible supply of underground flow, and further by artesian wells in the northern end of the county.

The San Juan Portland Cement Company's plant is not yet in opera-

tion.

The lime industry, though once large, has ceased, awaiting better

transportation facilities.

The quicksilver product of the New Idria Mines goes on unceasingly. Furnaces are practically finished at two new mines, the Esmeralda and the Bradford.

Large deposits of potter's clay of superior quality lie easy of access, as well as sandstone and lime rock quarries.

Gypsum is heavily mined in the southern end of the county and a

rock crushing plant is in the northern end.

Much development work for petroleum is going on in the southeast part of the county, and with good prospects.

STATISTICS OF SAN BENITO COUNTY, 1909-10.

General Statistics.	Cereal Products and H	lay.
Area 1.056 square miles, or 676,000 acres.	Tons of 2,000 pounds.	
Number of farms	Acres, Bushe	ds. Value.
Number of acres assessed 584.184	Wheat 2,000 39,36	30,700
Value of country real estate \$4,370,005	Barley 25,000 50,38	3 20,141
Of improvements thereon \$745,665	Oats 10,000 54,10	0 23,804
Of city and town lots \$461,040	Corn 30 35	7 250
Of improvements thereon \$559,410	m. 4.1	
Of personal property \$1,314,385	Total cereals 37,030 144,17	70 \$74,895
Total value of all property 7,664,315 Expended on roads, last fiscal	Acres. Tons	. Value.
year\$19,857	Alfalfa hay 1,500 4,50	00 \$45.000
Expended for bridges, last fis-	Grain hay 35,000 45,00	
cal year	<u> </u>	
Number of miles of public roads 414	Total hay 36,500 49,50	00 \$450,000
Road levy per \$100, 1910 33c		
Value of county buildings \$128,000	Live Stock Industry	7.
Irrigating ditches (cost) \$75,000	Numb	er. Value.
Railroads, steam—miles, 24.45; assessed value	Cattle-Beef 8,7	50 \$300,000
	Stock 15,29	244,640
Electric power plants — 1; assessed value	Dairy Cows-Graded 2,4	66 61,655
Number of acres irrigated 4,600	Thoroughbred-	
		5,000
Wines, Brandies, Etc.	Calves 3,4	
Gallons. Value.	Swine 2,8	
Dry wines 60,000 \$12,000		43 8,275
Beer (barrels) 1,636 10,635	Common 4,0	
Brandy 1,000 400	Colts 1,8	1 150
Number of wineries, 1; number of distil-	COCIE GILL JOILING TOTAL	45 1,760
leries, 1; number of breweries, 1.	Mules 10,6	
Dairy Industry.	Lambs 4,6	
Production. Value.	Common goats 2	70 7270
Butter (pounds) 250,000 \$67,500	Common Board	
Cheese (pounds) 477,600	Total value	\$895,420
Creameries, 1.	Wool (pounds) 126,2	00 19,000

STATISTICS OF SAN BENITO COUNTY, 1909-10-Continued.

Poultry and Eggs.	3	Number of Fruit Trees and Vines.
Dosen.	Value.	Bearing. Non-bearing. Total.
Chickens—	,	Apple 17,000 1,200 18,200
In county 8,800	\$38,500	Apricot 36,000 2,000 38,000
Shipped to market 4,165	19,800	Cherry 2,200 2,200
Ducks 145	715	Peach 15,000 1,000 16,000
Geese	165	Pear 7,000 7,000
Turkeys 230	6,500	Prune 125,000 20,000 145,000
Eggs 9,856		Quince 12
Total value	\$256,530	Total fruit 202,200 24,200 226,400
Fruits, Vegetables, Etc.		Almond 4,500 4,500
Total		Walnut 400 400
Production.		4000
Green— Pounds.	Value.	Total nut 4,900 4,900
Apples 2,200,000	\$33,000	Grapevines 305,500 140
Apricots 985,022 Blackberries 27,500	16,170 1,376	Berries, acres. 140
Blackberries 27,500 Beets 5,250	1,376 55	
Cabbage	1.575	Forest Products.
Cauliflower 10,500	525	Amount. Value.
Corn 105,000	2.100	Fuel, wood (cords) 5,000 \$30,000
Cherries 100,000	4,500	Power used for mills, manufactories, and
Grapes (table) 60,000	600	pumping plants in county—Steam (num-
Loganberries 135,000	6.075	ber), 13; electrical (number), 21; water (number), 1; gasoline (number), 18.
Pears 1,160,000	21,750	(number), 1, gasonne (number), 10.
Peaches 720,000	9,000	Miscellaneous Products.
Plums 125,000	3,000	Pounds. Value.
Irish potatoes 1,100,000	13,750	Bees (hives), number. 590 \$590
Raspberries 34,100	1,705	Honey 17,700 1,475
Strawberries 1,210,000	35,350	Garden seed 950,000 162,500
Tomatoes 5,000,000	42,000	Sugar beets (tons) 6.600 33.000
Total	\$192,330	Dressed veal 28,700 2,500
		Dressed hogs 17,500 1,400
Dried— Pounds.	Value.	
Almonds 80,000	\$8,800	Manufactories.
Apricots	126,000 2,855	Number of Value of
Onions 390,600 Peaches 120,000	6 ,000	No. Employees. Products.
Prunes 2,800,000	112,000	Cigars 1 2 \$7,000 Confectionery 2 4 3,375
Walnuts 30,000	3,000	Meat products—
Silver prunes 200,000	14,000	Hides 14,500
District promote territoria marty		Lard 5,300
Total	\$272,655	Meat packed 4,250
Canned— Cases.	Value.	Tallow 1,000
Apricots 1,250	\$3,750	Planing mills 1 3 6.500
Pears 410	1,722	
Tomatoes 500	900	Manufactured Output.
		Quantity.
Total	\$ 6,372	Cigars 190,000

SAN BERNARDINO COUNTY.

San Bernardino is not only the largest county in California, but it is the largest in the United States. It is larger than New Hampshire, Vermont, and Rhode Island combined; larger than New Jersey, Delaware, Massachusetts, and Rhode Island combined; very nearly as large as Massachusetts, Connecticut, and New Jersey. There are eight states whose area is less than that of this county.

San Bernardino County is in the southeastern part of the State. The greater portion is desert. In the north is the Mojave Desert, and in the east the northern end of the Colorado Desert, the arable portion being confined to the southwestern part—the San Bernardino Valley. This valley forms an almost perfect amphitheater, encircled by mountains and hills, open only on the west, allowing the sea breeze from the ocean to sweep its entire length.

Mount San Gorgonio is perpetually snow-capped, and from it is derived much of the water used for irrigation in the summer in the valley below, the remainder coming from the mountain range, giving a bountiful supply for irrigators. The combined waters of the streams, springs, and artesian wells make this valley one of the best watered in

southern California.

The forests on the mountain ranges furnish the supply of lumber and

timber used in the valley.

Mount San Bernardino, from its distinctive cone, has been adopted by the United States surveyors as the initial point for land surveys in southern California, both base and meridian starting from its peak.

The northern and eastern parts of the county are almost absolutely sterile. Yet, along the Mojave River, where it debouches from the mountains to the desert, and for many miles, the land on both sides is fertile, easily worked, and produces abundantly as long as the water

supply is available.

The soil of San Bernardino Valley varies greatly with locality. In the eastern part it is a sharp gravel or sand, with a large admixture of alluvial deposits. West the soil changes to a heavy, lark loam, with occasional patches of adobe. Still farther west, the soil is of a lighter character, and possesses much more of the soda and potash constituents. Immediately about the city of San Bernardino the soil is a strong adobe, with appearances here and there of soda salts. Along the river bottom the soil is a heavy clay, and in some places a black adobe. It is cold and damp, and not as suitable for fruit culture as for grazing and the growing of hay.

The rainfall varies a great deal, as does the climate. Passing from the lower levels to the high altitudes the rainfall increases. On the north and east of the mountain ranges, on the Mojave and Colorado deserts, the larger portion of the rainfall comes in July and August, with no rains during the winter. The rains are short, sharp, and heavy, frequently accompanied by thunder and lightning, which latter is

almost unknown south of the mountains.

In the number and character of irrigation enterprises, the county stands in the front rank. It has been justly called the "Mother of Irri-



gation," because here was dug the first irrigation ditch in the State, and here were raised the first crops by irrigation. It is over a hundred years since the mission fathers of San Gabriel established an outlying post, or submission, just west of Redlands, and employed Indian labor to dig what is known as the zanja. This ancient ditch is still in use and within the same banks that were first thrown up by Indian labor almost a century ago.

There are hundreds of miles of canals and pipe lines, with thousands of miles of laterals and individual pipe lines. In addition to this, hundreds and hundreds of wells have been bored, each producing a flowing stream without other or further expense, which volume is sufficient not only to irrigate many thousands of acres, but also furnishes the magnificent supply which fructifies and renders fertile the great

plain on which the city of Riverside stands.

Almost every variety of fruit can be produced in some part of this county. The only exceptions are those strictly tropical. In the mountain valleys and upon the upper plateaus, apples and cherries are grown. On the lower levels, all the deciduous fruits are produced. The production of oranges, lemons, and pomelos is large, these fruits being grown to perfection. The production of oranges has increased rapidly during the last few years. The first plantings of orange trees were two set out by Anson Van Leuven in his dooryard in Old San Bernardino in the early sixties, and by M. H. Crafts at Crafton, at about the same time or a little later.

In the western part of Rialto, Etiwanda, and Cucamonga neighborhoods there is produced a large quantity of raisins. Another section of the county especially adapted to the culture of grapes is that about

Hesperia, which lies along the Mojave River.

In the southwest corner of the valley is located the Chino Ranch, on which is the third largest beet-sugar factory in the world. The acreage devoted to sugar-beet culture is in the neighborhood of 20,000. The factory has a capacity of about 12,000 tons of refined sugar annually. The culture of sugar beets has been a profitable industry for the farmers. On this ranch are fattened thousands of head of cattle upon the beet pulp, which is siloed for that purpose.

Along the slope of the mountains, and in the mountain valleys and canyons, are numerous bee ranches, from which is produced a large

amount of honey.

The raising of cattle and sheep is carried on along the mountain ranges and in the upper mountain valleys. Several large bands of sheep are grazed on the ranges. Dairying is carried on in both the upper and lower valleys. Pure-bred or grades of high-class dairy cattle are in general use. A stock company for the breeding of the most desirable classes of horses has a large ranch at Victor to be devoted exclusively to their raising.

Wheat, oats, and barley are grown in considerable quantities, and

alfalfa is raised with profit.

Vegetables of nearly all descriptions are raised, the yield being large, and a growing shipping trade to outside markets has been established.

The northern and eastern portions are heavily mineralized, and although prospecting has been carried on for fifty years, new and greater finds are being made every year. Almost every known mineral

has been discovered. Gold, silver, copper, iron, tin, lead, borax, soda, and nitrates are found in abundance and scattered over a wide area. Some of the richest silver mines in the State are in this county. Copper exists in great abundance. The high cost of freight; the scarcity of water, which renders the life of the prospector precarious, as well as interfering with the working of the mines; the scarcity and high cost of fuel—all combined have limited prospecting and retarded mining development. The building of railroads across the desert has partially removed some of these obstacles, and mining recently has be n prosecuted with more vigor.

STATISTICS OF SAN BERNARDINO COUNTY, 1909-10.

General Statistics.	Fruits, Vegetables, Etc.	
	, - ,	
Area 20,160 square miles, or 12,902,400	Production.	
acres.	Green Pounds	Value.
Number of farms 5,685 Number of acres assessed 893,745	Apples 2,400,000	\$71,250
Number of acres assessed 893,745	Apricots 6,512,000	52,075
Value of country real estate \$16,649,790	Blackberries 92.500	9,375
Of improvements thereon \$7,680,500 Of city and town lots \$4,198,428	Beans	35,600
Of city and town lots \$4,198,425	Beets	28,000
Of improvements thereon \$5,669,365	Cabbage	89,000
Of personal property \$2,769,650	Cauliflower	2,500
Total value of all property \$36,967,730	Corn	41,500
Total value of all property \$26,967,730 Expended on roads, last fiscal	Cherries 140,000	9,800
year \$184,105	Figs 15 000	1,500
Expended for bridges, last fis-	Grapes98.500.000	526,600
cal year	Grapes	41,580
Number of miles of public roads 2,160	Lemons (boxes) 225,615	753,554
Road levy per \$100, 1910 450	Loganberries 19,800	2,050
Value of county buildings \$460,000	Nectarines	500
Irrigating ditches — miles, 440;	Onions 85.000	1,550
cost \$3,895,000	Oranges (boxes)	5,023,770
Railroads, steam — miles, 713;	Olives 450.000	15,625
assessed value \$12,999,332	Pears 1,050,000	27,900
Railroads, electric — miles, 53;	Peaches	84,080
assessed value		26,750
Electric power plants — 2; as- sessed value \$625,000	Plums 180.000	4,500
sessed value		24,500
Electric power lines—miles, 206;	Sweet potatoes 30,000	650
assessed value		2,400
Number of acres irrigated 49,900		1,750
	Strawberries 180,000	16,200
	Tomatoes 1,600,000	6,400
Dairy Industry.	Miscellaneous 2,000,000	9,000
· ·		
Production. Value.	Total value	\$ 6,910,159
Butter (pounds) 180,000 \$54,000	Dried— Pounds.	Value.
Creameries, 2.	Almonds 4,500	\$6 50
	Apricots 810,000	58,725
	Figs 2,200	
		340
Number of Fruit Trees and Vines.	Onions 14,000	340 400
	Onions 14,000	340 400 24,000
Bearing, Non-bearing, Total,	Onions	340 400 24,000 2,250
Bearing, Non-bearing, Total,	Onions - 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000	340 400 24,000
Apple 20,200 3,500 23,700 Apricot 26,200	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000	340 400 24,000 2,250
Apple 20,200 3,500 23,700 Apricot 26,200 3,500 26,200 Cherry 15,600 15,690	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000	340 400 24,000 2,250 90,600 2,600
Bearing. Non-bearing. Total. Apple 20,200 3,500 23,700 Apricot 26,200 26,200 Cherry 15,600 15,600 Fig 2,650 2,650	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000	340 400 24,000 2,250 90,600
Apple Bearing. Non-bearing. Total. Apricot 20,200 3,500 23,700 Apricot 26,200	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000 Total value Cases	340 400 24,000 2,250 90,600 2,600 \$179,565 Value.
Apple 20,200 3,500 23,700 Apricot 26,200 26,200 Cherry 15,600 15,600 Fig 2,650 2,650 Lemon 222,200 1,500 223,720 Nectarine 2,375 23,375	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000 Total value Cases Canned Cases	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570
Apple Bearing. Non-bearing. Total. Apricot 20,200 3,500 23,706 Apricot 26,200 26,209 Cherry 15,600 15,600 Fig 2,650 2,655 Lemon 222,200 1,500 223,725 Nectarine 2,375 2,375 Olive 54,000 54,000 Orange 3,160,200 145,000 3,295,200	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000 Total value Casses Apricots 31,700 Cherries 600	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340
Apple Bearing. Non-bearing. Total. Apricot 20,200 3,500 23,706 Apricot 26,200 26,209 Cherry 15,600 15,600 Fig 2,650 2,655 Lemon 222,200 1,500 223,725 Nectarine 2,375 2,375 Olive 54,000 54,000 Orange 3,160,200 145,000 3,295,200	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000 Total value Casses Apricots 31,700 Cherries 600	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570
Apple Bearing. Non-bearing. Total. Apricot 20,200 3,500 23,706 Apricot 26,200 26,209 Cherry 15,600 15,600 Fig 2,650 2,655 Lemon 222,200 1,500 223,725 Nectarine 2,375 2,375 Olive 54,000 54,000 Orange 3,160,200 145,000 3,295,200	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000 Total value Casses Apricots 31,700 Cherries 600	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340 1,610 13,400
Apple Bearing. Non-bearing. Total. Apricot 20,200 3,500 23,706 Apricot 26,200 26,209 Cherry 15,600 15,600 Fig 2,650 2,657 Lemon 222,200 1,500 223,72 Nectarine 2,375 2,375 Olive 54,000 54,000 Orange 3,160,200 145,000 3,295,200 Peach 8,250 8,250 Pear 18,500 18,500 Plum 2,700 2,700	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000 Total value Cases Apricots 31,700 Cherries 675 Peaches 1,067,002 Plums 680	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340 1,610 13,400 1,190
Apple Bearing. Non-bearing. Total. Apricot 20,200 3,500 23,706 Apricot 26,200 26,209 Cherry 15,600 15,600 Fig 2,650 2,657 Lemon 222,200 1,500 223,72 Nectarine 2,375 2,375 Olive 54,000 54,000 Orange 3,160,200 145,000 3,295,200 Peach 8,250 8,250 Pear 18,500 18,500 Plum 2,700 2,700	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000 Total value Canned Cases Apricots 31,700 Cherries 670 Pears 575 Peaches 1,067,002 Plums 680	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340 1,610 13,400
Apple 20,200 3,500 23,700 Apricot 26,200 3,500 23,700 Cherry 15,600 15,600 Fig 2,650 26,500 Nectarine 23,750 Olive 54,000 54,000 Orange 3,160,200 145,000 3,295,200 Peach 8,250 12,500 22,720 Peach 8,250 145,000 3,295,200 Pum 2,700 2,700 Prume 2,800 2,800	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000 Total value Casse. Apricots 31,700 Cherries 600 Pears 575 Peaches 1,067,002 Plums 680 Miscellaneous 13,000	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340 1,610 13,400 27,400
Apple Bearing. Non-bearing. Total. Apricot 20,200 3,500 23,706 Apricot 26,200 26,209 Cherry 15,600 15,600 Fig 2,650 2,657 Lemon 222,200 1,500 223,72 Nectarine 2,375 2,375 Olive 54,000 54,000 Orange 3,160,200 145,000 3,295,200 Peach 8,250 8,250 Pear 18,500 18,500 Plum 2,700 2,700	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000 Total value Cases. Apricots 31,700 Cherries 600 Pears 575 Peaches 1,067,002 Plums 680 Miscellaneous 13,000	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340 1,610 13,400 1,190
Apple 20,200 3,500 23,700 Apricot 26,200 3,500 23,700 Cherry 15,600 15,600 Fig 2,650 26,500 Nectarine 23,750 Olive 54,000 54,000 Orange 3,160,200 145,000 3,295,200 Peach 8,250 12,500 22,720 Peach 8,250 145,000 3,295,200 Pum 2,700 2,700 Prume 2,800 2,800	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000 Total value Canned— Casses Apricots 31,700 Cherries 600 Pears 575 Peaches 1,067,002 Plums 680 Miscellaneous 13,000 Total value Total value	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340 1,610 13,400 27,400
Apple Bearing. Non-bearing. Total. Apricot 26,200 3,500 23,700 Cherry 15,600 15,600 Fig. 2,650 2,650 Lemon 222,200 1,500 223,720 Nectarine 2,375 2,377 Olive 54,000 54,000 54,000 Orange 3,160,200 145,000 3,295,200 Peach 8,250 18,500 18,500 Plum 2,700 2,700 2,700 Prune 2,800 2,800 Other kinds 7,500 7,500	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000 Total value Canned Cases Apricots 31,700 Cherries 675 Peaches 1,067,002 Plums 680 Miscellaneous 13,000 Total value Wines, Brandies, Etc.	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340 1,610 13,400 27,400 \$312,510
Apple 20,200 Apricot 26,200 Cherry 15,600 15,600 Fig 2,650 2,655 Lemon 222,200 1,500 23,720 Nectarine 2,375 Olive 54,000 54,000 Orange 3,160,200 145,000 3,295,200 Peach 8,250 8,255 Plum 2,700 2,700 Prune 2,800 2,800 Other kinds 7,500 Total fruit 3,543,175 Almond 1,500 1,500 3,683,176	Onions	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340 1,610 11,490 27,400 \$312,510 Value.
Apple 20,200 Apricot 26,200 Cherry 15,600 15,600 Fig 2,650 26,200 Nectarine 23,750 Orange 3,160,200 145,000 3,295,200 Pear 18,500 128,700 Pum 2,700 Prune 2,800 22,700 Other kinds 7,500 Total fruit 3,543,175 Almond 1,500 1,500 23,750 Apple 3,600,200 Apple 3,160,200 Apple	Onions	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340 1,610 1,190 27,400 \$312,510
Apple 20,200 Apricot 26,200 Cherry 15,600 15,600 Fig 2,650 2,655 Lemon 222,200 1,500 23,720 Nectarine 2,375 Olive 54,000 54,000 Orange 3,160,200 145,000 3,295,200 Peach 8,250 8,255 Plum 2,700 2,700 Prune 2,800 2,800 Other kinds 7,500 Total fruit 3,543,175 Almond 1,500 1,500 3,683,176	Onions	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340 1,190 27,400 \$312,510 Value. \$2,240 214,500
Apple 20,200 3,500 23,700 Cherry 15,600 1,500 223,720 Cherry 15,600 1,500 223,720 Cherry 2,650 2,655 Lemon 222,200 1,500 223,721 Chemon 222,200 1,500 223,721 Chemon 2,375 2,	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000 Total value Cases Apricots 31,700 Cherries 600 Pears 575 Peaches 1,067,002 Plums 680 Miscellaneous 13,000 Total value Wines, Brandies, Etc. Gallons Dry wines 1,030,000 Sweet wines 1,140,000 Brandy 192,000	340 400 24,000 2,250 90,600 \$179,565 Value. 66,570 2,340 1,610 1,190 27,400 \$312,510 Value. \$128,000 214,500 61,500
Apple 20,200 Apricot 26,200 Cherry 15,600 15,600 Fig 2,650 26,200 Nectarine 23,750 Orange 3,160,200 145,000 3,295,200 Pear 18,500 128,700 Pum 2,700 Prune 2,800 22,700 Other kinds 7,500 Total fruit 3,543,175 Almond 1,500 1,500 23,750 Apple 3,600,200 Apple 3,160,200 Apple	Onions 14,000 Peaches 640,000 Prunes 100,000 Raisins 3,200,000 Walnuts 20,000 Total value Cases Apricots 31,700 Cherries 600 Pears 575 Peaches 1,067,002 Plums 680 Miscellaneous 13,000 Total value Wines, Brandies, Etc. Gallons. Dry wines 1,030,000 Sweet wines 1,140,000 Ready 192,000	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340 1,190 27,400 \$312,510 Value. \$2,240 214,500
Apple 20,200 Apricot 26,200 3,500 23,700 Cherry 15,600 15,600 Fig 2,650 2,655 Lemon 222,200 1,500 223,720 Nectarine 2,375 Olive 54,000 54,000 Orange 3,160,200 145,000 3,295,200 Peach 8,250 8,255 Plum 2,700 18,500 18,500 Plum 2,700 2,700 Prune 2,800 2,800 Other kinds 7,500 7,500 Total fruit 3,543,175 150,000 3,683,175 Almond 1,500 1,500 8,300 Walnut 6,800 1,500 9,800 Grapevines,	Onions	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340 1,610 11,490 27,400 \$312,510 Value. \$128,000 61,500 7,500
Apple 20,200 Apricot 26,200 3,500 23,700 Cherry 15,600 15,600 Fig 2,650 223,720 Nectarine 23,75 23,75 Olive 54,000 54,000 Peach 8,250 Peach 8,250 Pear 18,500 18,550 Plum 2,700 23,95,200 Plum 2,700 23,95,200 Plum 2,700 2,700 Prune 2,800 2,800 Other kinds 7,500 7,500 Total fruit 3,543,175 Almond 1,500 Walnut 6,800 1,500 8,300 Total nut 8,300 1,500 9,800	Onions	340 400 24,000 2,250 90,600 \$179,565 Value. 66,570 2,340 1,610 1,190 27,400 \$312,510 Value. \$128,000 214,500 61,500
Apple 20,200 Apricot 26,200 Cherry 15,600 15,600 Fig 2,650 26,500 Cherry 2,650 223,720 Nectarine 23,750 Olive 54,000 54,000 Orange 3,160,200 145,000 3,295,200 Peach 8,250 125,600 125,600 Pear 18,500 145,000 3,295,200 Pum 2,700 2,700 Prune 2,800 2,800 Other kinds 7,500 7,500 Total fruit 3,543,175 150,000 3,683,175 Almond 1,500 1,500 Walnut 6,800 1,500 9,800 Grapevines,	Onions	340 400 24,000 2,250 90,600 2,600 \$179,565 Value. 66,570 2,340 1,610 11,490 27,400 \$312,510 Value. \$128,000 61,500 7,500

STATISTICS OF SAN BERNARDINO COUNTY, 1909-10-Continued.

Cereal Products and Hay	7.	Live Stock Industry.	
Tons of 2,000 pounds.	W.L	Number.	Value.
Barley 4,700 2,450	Value. \$42,900	Cattle—Beef 10,800	\$594,000
Barley 4,700 2,450 Oats 100 75	2,575	Stock 14,400 Dairy Cows—Graded 875	288,000
Corn 2,500 1,200	35,400	Calves 3,600	85,000 86,000
		Swine 8,900	97,000
Total value	\$80,875	Horses-Thoroughbred 18	18,000
Acres. Tons.	Value.	Standard-bred 350	87,500
Alfalfa hay 8,700 61,880	\$679,900	Common 14,000	1,330,000
Grain hay 2,500 23,000	276,000	Colts 900	18,000
Grass hay 600	3,600	Mules 500	75,000
		Total realise	80 F70 F00
Total value	\$959,590	Total value	\$2,578,500
Forest Products.		Manufactories.	
Amount.	Value.	Deal-blodenten	Value.
Area of timber lands	7 82444	Bookbinderies	\$4,600 205,000
(acres) 287,000		Brick	21,000
Cedar (acres) 28,000		Cement	800,000
Pine (acres) 259,000	• • • • • • • • • • • • • • • • • • • •	Cigars	24,000
Sawmills (number) 3 Charcoal (sacks) 3,000	\$50,000 1,200	Clothing	71,500
Charcoal (sacks) 3,000 Fuel, wood (cords) 14,000	1,200	Confectionery	63,000
Fuel, wood (cords) 14,000	77,000 215,000	Electrical supplies	250,000
Lumber (feet)12,000,000 Sash and door fac-	210,000	Flouring mills	342,000
tories (number) 2	21,000	Foundries and iron works Leather goods	260,000 25,000
• •		Lime	150,000
Total value	\$ 364,200	Machinery	606.575
Poultry and Eggs.		Meat products—	222,000
Dosen.	Value.	Meat products— Hides	46,500
Chickens 8,000	\$40,000	Lard	17,200
Ducks	600	Meat packed	10,500
Geese 50	500	Tallow	16,000 95,000
Turkeys 825	13,000	Pickles	162,000
Eggs 840,000	226,800	Sewer pipe	28.000
(Poto) moluo	****	Sewer pipe	184,000
Total value	\$280,900	Artificial stone	11,500
Miscellaneous Products.		Granite	4,500
Pounds.	Value.	Marble	35,000
Bees (hives) number. 11,500	\$40,250	SandstoneSugar, beet	3,000 1,485,000
Beeswax 5,000	1,250	Tin and galvanized iron	117,000
Flowers and plants (acres)	176,000	Fertilizer	150,000
	27,000	Miscellaneous	83,000
Honey	1,200	Feed, mill	262,800
Syrup (gallons)	3,000	Oil refinery	687,500
Sugar beets (tons) 40.000	220,000	Ice	615, 000
Beet pulp	42,500	Total value	\$6,836,175
Alfalfa meal	40,000	Manufactured Output.	φυ,ουυ, ± 1 υ
Gold Silver	175,000 20,000	manuactured Output.	
Copper	15,000	Brick (thousand)	Quantity. 3, 400
Lead	10,000	Cement (tons)	80,000
Tungsten	120,000	Cement (tons)	440
Crushed rock	125,000	Flour (barrels)	60, ÕÕÕ
Marble dust	1,200	Hides (pounds) Lard (pounds)	530,000
Plaster	75,000	Lard (pounds)	119,000
Paving blocks	35,000	Meat packed (pounds)	72,500
Salt	50,000	Tallow (barrels)	800
Total value	\$1 188 700	Olive oil (gallons)	42,000 180,000
20ton 700000	W1,100,100	I ICRIEG OHVES (Samons)	100,000

SAN DIEGO COUNTY.

San Diego County occupies the southern part of the State, and has an area slightly larger than Massachusetts. The Pacific Ocean washes its shores for upward of 75 miles. The land rises gently from the ocean for a distance of about fifty miles to a chain of peaks forming the backbone of the county, descending again quite rapidly to the Colorado

River Valley, the greater part of which is below sea level.

The arable portion of the western slope is divided into a series of irregular terraces or plateaus. The lower or coast terrace comprises a number of valleys with the intervening mesa. This large acreage is practically frostless. Next comes a series of higher valleys, Poway Valley, varying in elevation from 400 to 500 feet. The third terrace, the altitude of which ranges from 1,000 to 2,500 feet, comprises the foothill region, with numerous smaller intervening valleys, nooks and glens. Next comes the mountain region. The area of tillable land in these valleys and mesas is approximately 600,000 acres, a still larger area being suited to pasturage and grazing. The elevation of the mountain valleys varies from 2,500 to 4,500 feet. They are chiefly devoted to stock raising, but many of them are well adapted to the growing of small fruits and vegetables and to diversified farming.

The arable soil of the county may be classed under two heads; granitic and adobe; though there is often a mixture of both, resembling

adobe.

The intermountain region, the hills and valleys between the plains of Imperial and the western slope of the county, is rich in minerals, and affords excellent pasturage for several thousand cattle. The mineral wealth of San Diego County, though known to be great, is largely undeveloped, and offers an excellent field for the prospector and capitalist. Lepidolite and amblygonite, containing lithia and other valuable products, exist in greater quantities than in any other known deposit in the world. San Diego is producing the finest tourmaline in the United States. The crystals are of exceptional hardness, possess exquisite delicacy of coloring, and when cut form gem-stones of great brilliancy. Kunzite, a new gem, not found in any other part of the world, was recently discovered at Pala, and is attracting a great deal of attention. Gem experts are manifesting a deep interest in the remarkable crystallizations found in San Diego County.

According to a bulletin on the "Climatology of California," recently published by the U. S. Department of Agriculture, San Diego County has the heaviest and most reliable rainfall of any part of southern California. The rainfall increases, and greater extremes of temperature occur, as you leave the coast, the higher mountain peaks being often

covered with snow to quite a depth during a part of the winter.

Water is impounded mainly for the citrus orchards of the coast section, the higher valleys requiring but little or no irrigation for their

crops of cereals, deciduous fruits, olives, vegetables, etc.

As an evidence that education keeps pace with the population, there are more than one hundred and fifty schoolhouses distributed through the county, the instruction in which is up to the usual high standard found throughout California.

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The board of supervisors has done and is doing good work in the way of road building, the most distant and mountainous places being readily reached over excellent highways.

The orange, lemon, and pomelo, or grape fruit, do well. The largest

single lemon grove contains about 800 acres.

Raisin grapes are a profitable crop, and the industry has a bright uture. The wine industry is large and growing.

Olive growers are making money. An olive grove, to be a commercial success, should be set out with a view to supplying pickling fruit, oil olives being treated as a by-product. The demand for pickled ripe olives is already in excess of the supply, and steadily growing.

Peaches, apricots, pears, quinces, plums, cherries, and other deciduous fruits do well. The mountain region around Julian has attained a

special reputation for the crisp, finely flavored apples.

A good walnut orchard, properly located with reference to soil and water, is a safe investment. Small areas well suited to this crop may be found in different parts of the county—notably in the Tia Juana Valley. Almonds do well, and there are some thriving orchards.

San Diego County is celebrated for its deliciously perfumed and fineflavored honey, which always finds a ready market at top prices. The apiaries are located for the most part among the hills and valleys back

from the coast.

There is reason to believe that the cultivation of the silkworm may hold a most important part in the industrial development of San Diego County—the climatic conditions are so perfectly adapted to the delicate constitution of the worm, and the foliage of the mulberry may be had in such wholesome condition practically during the entire year. Many acres have been set out to mulberry trees, and those interested feel greatly encouraged over the outlook.

The dairy industry has shown a healthy growth, having trebled in the

past four years.

The modern city of San Diego was founded by A. E. Horton in 1867. The situation is not only sanitary and attractive, but it is also admirably adapted for a large ocean commerce. Numerous wharves extend into deep water, and in their neighborhood may be found lumber yards, planing mills, warehouses, foundries, etc. The electric street railway system is equipped with modern cars and complete in every respect. Water is provided in abundance, the supply and distribution being controlled by the municipality. The streets of the city are well lighted by electricity. The schools, private and public, have an excellent reputation. A fine, large opera house, perfect in its appointments, is on the circuit of the very best theatrical and operatic companies. also several smaller theaters. The different religious organizations worship in attractive edifices; secret societies and benevolent associations have their lodge rooms, and numerous musical and literary clubs are supported by an active membership. There are several strong banking institutions. The hotel accommodations are excellent, and there are a number of sunny modern lodging houses. San Diego is thrown into special prominence as being the first port of call on the Pacific coast of the United States north of Panama, and the magnificent bay, around the shores of which the city is built, will soon become an important naval rendezvous. The Government has concluded arrangements for the erection of a large coaling station here, and is fast completing the

building of a modern military post at Fort Rosecrans, the big guns of which command the entrance to the bay.

Just across the bay from San Diego, ten minutes by ferry, is the peninsular city of Coronado, with its world-famous Hotel del Coronado

and many beautiful homes.

National City, the second largest city, is situated on the southeast shore of the bay. The land here rises gently from the water front, and is admirably suited for the location of manufacturing establishments or other plants requiring a comparatively large area of level ground with good water frontage. There are a number of attractive homes within the city limits and nestling among the lemon and orange groves in the fertile valleys near by. The church and school facilities of the place are excellent. A large manufactory of citrus products is in successful operation, turning out citric acid, oil of lemon, lemon extracts, etc. There is also an olive oil factory, and its product is equal to the best.

Passing through Old Town, you come to Pacific Beach, a very attractive suburb of San Diego. The land is quite level near the ocean, affording one of the widest, smoothest, hardest, and most attractive beaches along the coast.

Escondido is some 35 miles northeast of San Diego, being connected by a spur with the main line of the Southern California Railway. A large area of productive country is tributary to Escondido, from which are made shipments of hay, grain, cattle, hogs, oranges, lemons, raisins, wine, honey, chickens, eggs, butter, etc. The school and church accommodations of the place are excellent.

STATISTICS OF SAN DIEGO COUNTY, 1909-10.

		5		
General Statistics.		Dairy Ind		
Area 4,209 square miles, or 2,693,760	cres.	No. P	roduction.	Value.
Number of acres assessed 1,29	7,842	Skimming stations 4	710,000	\$248,500
Value of country real estate \$5,61	31,556	Butter (pounds)	471,000	157,000
Of improvements thereon \$91	37,774	Cream (gallons)	10,000	10.000
Of city and town lots \$35,00	3.526		_	
	18,252	Total value		\$415,500
	8,624	Dairies, 250; creameri	es, 3.	
Total value of all property \$51,99				
Expended on roads, last fiscal		Poultry and	Eggs.	
year \$8	5,267		Dozen.	Value.
Expended for bridges, last fis-	,0,201	Chickens	29.540	\$205.780
cal year	3.561	Ducks	1,500	9.750
Number of miles of public roads	5,200	Geese	500	9,000
Road levy per \$100, 1910	50c	Turkeys	1,200	32,400
Value of county buildings \$65	27.000	Eggs	1 205 200	361,680
Irrigating ditches—miles, 133;	,000	шава	1,200,300	301,000
	20,090	Total value	_	\$618,610
cost	.0,0.00	Total value	• • • • • • •	\$ 010,010
assessed value \$2,22	4.044	Number of Fruit Tr	T bee see	'in an
Railroads, electric—miles, 56.1;	12,011			
assessed value	8,330	Bearing.	Non-bearing	
Electric power plants — 4; as-	,0,000	Apple 65,860	25,850	91,710
sessed value \$8	8,900	Apricot 49,110	2,200	51,310
Electric power lines—miles, 2;	,0,000	Cherry 5,745	725	6,470
assessed value	5,200	Fig 15,700	2,100	17,800
	4.775	Lemon 301,000	31,600	305,600
Number of acres irrigated	. 2, 1 1 7	Olive 231,600	24,000	255,600
Cereal Products and Hay.		Orange 107,000	4,200	111,200
		Peach 95,200	39,100	133,300
Tons of 2,000 pounds. Acres. Bushels. V	alue.	Pear 17,850	10,000	27,850
	3,000	Plum 11,750	9,000	20,750
	1.375	Prune 87,360	4,000	91,360
	2,400	Pomelo 17,000	2,350	19,350
	7,600	Madel 4-14 1 005 185	155 105	1 100 000
COIN 2,200 1,104	11,000	Total fruit1,005,175	155,125	1,132,300
Total cereals 46,880 20,154 \$41	4,275	Almond 8,380	1.000	9.380
		Walnut 7,000	2,700	9,700
	0,000			
	0,000	Total nut 15,380	3,700	19,080
Grass hay 3,600 4,800	8,400	·		•
		Grapevines2,288,000	549,500	2,837,500
Total hay 94,295 117,300 \$1,38	88,400	Berries, acres. 185	10	195

STATISTICS OF SAN DIEGO COUNTY, 1909-10-Continued.

Fruits. Ve	getables, Etc.		Manufac	tories.	
,	Total		İ	Number of	Value of
Green-	Production. Pounds.	Value.	Boat builders	No. Employees	Products.
Apples		\$62,500	Bookbinderies	3 6 3 15	\$7,000 15,000
Apricots		48,000	Paper boxes	1 3	5,000
Blackberries	300,000	12,000	Wood boxes	1 6	20,000
Beans		116,900	Brick Brooms	3 75 1 5	100,000
Cabbage		5,000	Blue prints	Î š	11,000 12,000
Celery Cauliflower	20,000 160,000	300 6,400	Blue prints Carriages and	-	•
Corn	2.000,000	30,000	wagons	2 13	10.000
Cherries	200,000	10,000	Cigars and smoking	3 90	225,000
Figs		489	tobacco	1 4	5 000
Grapes	5,000,000	30,000	Coffee, spices, etc Confectionery Concrete piles Chemicals	2 20	190,000
Lemons (boxes)*	600,000 460,272	9,000 1,495,884	Consectionery	6 55 1 10	200,000
Loganberries		400	Chemicals	2 10	10,000 15,000
Onions	250,000	3,125	Electrical supplies	7 29	101,000 218,750
Oranges (boxes)†		32,857	Flouring mills Foundries and iron	1 16	218,750
Olives Pears	3,700,000	157,250 3,097	_ works	8 192	245,000
Peaches		20,000	Furniture	1 6	23,000
Peas		15,500	Gas and electricity	1 20	23,000 100,000
Persimmons	20,000	800	Jewelry Leather goods	5 23 2 9	62,000
Plums		3,000	Feathers	2 24	8,500 35,000
Irish potatoes Sweet potatoes		75,225 4,500	Feathers	1 5	15,000
Prunes	200,000	4,000	Curios Engraving	2 9 1 7	12,000
Quinces	2.000	60	Acetylene gas engine	2 3	12,000 10,000
Strawberries	2,000,000	80,000	lice	2 23	\$2,500
Tomatoes		5,500	Meat products— Hides	5 21	109 000
mubaro	18,000	540	Lard		103,000 8,600
Totals	29,329,610	\$2,233,318	Meat packed	15	40,000
Dried	Pounds.	Value.	Clive canneries	• • • • • • • • • • • • • • • • • • • •	33,000 130,900
Almonds		\$7,800	Olive oil	4 40	27,000
Apricots		17,600	Showcases	3 34	70,000
Beanst	1,650,000	82,500	Pickles	1 4	4,500
Onions		4,500	Planing mills	$\begin{array}{ccc} 1 & 22 \\ 7 & 171 \end{array}$	40,000
Prunes		1,500 1,200	Salt	2 70	573,000 140,000
Raisins§		105,600	Soap	1 17	9,000
Walnuts	100,000	12,500	Artificial stone	2 30 3 63	80,000 225,000
Totals	6.060.000	\$233,200	Granite	3 24	40,000
	-		Mattresses	2 21	65,000
Canned— Olives	Gallons. 146,600	Value. \$131,940	Precious gems	8 20 5 20	50,000 200,000
3.3.12	210,000	4101,010	Rough gems Peanut butter and		
Live Sto	ck Industry.		Saratoga chips	$\begin{array}{ccc} 2 & 12 \\ 2 & 7 \end{array}$	7,500
	Number.	Value.	Trunks	2 12	30,000 15,000
Cattle-Beef		\$600,000	Auto tops	ī -6	30,000
Stock	40,300	1,200,000	Tin and galvanized	E E0	110 000
Dairy Cows—Grade	d 1,200	60,000	citrus washing pow-	5 50	110,000
Thoroughbred— Angus	100	10,000	der	1 17	58,016
Ayrshire (com-			Sal soda	i 100	1,825 500, 00 0
mon)	12,000	420,000	Sawmills	1 25	150,000
Devon Herefords		11,500 750	Rubber stamps	1 2	5,000
Jersey	250	12,500	Fuel	1 12 2 15	20,000
Calves	14.000	140,000	Tents and awnings		50,000
Swine	13,500	135,000	Total value	• • • • • • • • • •	\$4,516,091
Standard-bred	red 100	20,000 250,000	Manufacture	ed Output.	Quantity.
Common	8,600	516,000	Brick (thousand)		13,333
Colts	2,000	50,000	Brooms (dozen)	• • • • • • • • •	2,500
Jacks and jennies . Mules		3,200 189,000	Cigars	• • • • • • • • • • • • • • • • • • • •	8,770,000 43,750
Sheep	10,300	77,000	Hides (pounds)		640,000
Lambs	4,200	12,600	Lard (pounds)		80,000
Common goats	600	1,500	Meat packed (pounds) Tallow (barrels)		350,000 1,600
Total stock	122,835	\$3,718,050	Ulive oil (gailons)		12,500
wool (pounds)	100,000	25,000	Olives (gallons) Pickles (gallons)		146,600
Mohair (pounds)	125,000	12,500	Pickles (gallons)	• • • • • • • • • • • • • • • • • • • •	2,000 12,000
			Salt (tons)		230,000
* 1,472 cars.			Smoking tobacco		10,000
† 168 cars. † 55 cars.			Citrus washing powde	r	720,000
§ 65 cars.			Sal soda Lumber cut per day (feet)	180,000 65,000
***			(,	,

STATISTICS OF SAN DIEGO COUNTY, 1909-10-Continued.

Wines, Brandies,	Etc.	Forest Pro	ducts.	
Gal	llons. Value.	1	Amount.	Value.
Dry wines 52	5,000 \$175,000	Area of timber lands		
	5.350 92,675	(acres)	43,260	
	2,324 418,592	Cedar (acres)	2,000	9F 40 FF0
	7,000 5,250	Fille (acres)	17,200 }	\$54 0,750
	1,800 1,170		23,060 1,000	
**************************************		Fuel. wood (cords)	2,500	15,000
Totals 77	1,474 \$692,687	Eucalyptus	5,000	100,000
Number of wineries, 5; no leries, 4; number of brewer		Total value		\$655,750
teries, 4, mainber of brewer	105, 1.	Power used for mills	and manuf	actories
		in county—Steam (num	ber), 178; e	lectrical
Pish Industry		in county—Steam (num (number), 350; gasoline	ber), 178; e (number),	lectrical 100.
Pou	inds. Value.	(number), 350; gasoline	(number),	lectrical 100.
Pou All kinds (fresh) 3,27	inds. Value. 4,414 \$163,720	(number), 350; gasoline	(number), Products.	100.
Pout All kinds (fresh) 3,27 Salt dried 1,05	inds. Value. 4,414 \$163,720 6,000 42,240	(number), 350; gasoline Miscellaneous	(number), Products. Pounds.	100. Value.
Pour All kinds (fresh) 3,27 Salt dried	inda. Value. 4,414 \$163,720 6,000 42,240 6,400 10,736	(number), 350; gasoline Miscellaneous Bees (hives), number.	(number), Products. Pounds. 55,000	100.
Pour All kinds (fresh) 3,27 Salt dried	inds. Value. 4,414 \$163,720 6,000 42,240	(number), 350; gasoline Miscellaneous	(number), Products. Pounds.	Value. \$165,000
All kinds (fresh) 3,27 Salt dried 1,05 Pickled 24 Lobsters 4	inda. Value. 4,414 \$163,720 6,000 42,240 6,400 10,736	(number), 350; gasoline Miscellaneous Bees (hives), number. Beeswax Flowers and plants Honey (strained and	(number), Products. Pounds. 55,000 25,000	Value. \$165,000 6,000 75,000
All kinds (fresh) 3,27 Salt dried 1,05 Pickled 24 Lobsters 4	Inda. Value. 4,414 \$163,720 6,000 42,240 6,400 10,736 0,000 8,000 1,000 550	(number), 350; gasoline Miscellaneous Bees (hives), number. Beeswax Flowers and plants	(number), Products. Pounds. 55,000 25,000	Value. \$165,000 6,000

SAN FRANCISCO COUNTY.

San Francisco is essentially a commercial and manufacturing city. It produces no agricultural products, except to a small extent the minor vegetables. Its location on the bay of San Francisco, one of the finest and safest harbors in the world, eminently fits it for a commercial city, and its importance in this respect insures it a place among the chief shipping centers of the world.

Within the past two years the city has expended \$12,000,000 for public improvements which include municipal buildings, streets, sewers, high pressure water system for fire protection, garbage incinerators,

hospitals, etc. Its revenues are about \$11,000,000 annually.

Area 42.19 square miles; value of city and town lots, \$288,095,453; of improvements thereon, \$145,167,790; of personal property, \$81,763,921; total value of all property, \$515,027,164; railroads, steam, assessed value, \$392,925.

SAN JOAQUIN COUNTY.

San Joaquin County lies directly east of San Francisco and San Pablo bays and spans the great interior valley of California from the foothills of the Coast Range to the foothills of the Sierra Nevada Mountains. If thus commands the entrance to the chief port and metropolis of the coast from the continent, and for both water and land traffic; hence it is termed the "Gateway County." It embraces most of the famous San Joaquin delta within its limits. The soil varies in character, but the surface is mostly level and well adapted to intensive agriculture. The climate of this area is tempered by sea influences, by the air which rushes through the gap in the Coast Range. The products are wonderfully diversified, and from its rank, ten years ago, as the leading grain county in the West, it has progressed to a system of mixed and special agriculture and is now distinguished as a producer of hay, barley, potatoes, grapes, garden vegetables, orchard fruits, beans, onions, asparagus, celery, dairy products, and poultry.

The county has 400 lineal miles of navigable waterway, four transcontinental railroads, about 40 miles of interurban electric line, with other lines under construction, is improving 240 miles of permanent highways at a cost of \$2,000,000. Its transportation facilities are consequently unexcelled. Stockton, its county seat, is a city of 25,000 people, a commercial and manufacturing center, and the distributing point for the San Joaquin Valley. Within the past ten years the number of farmers in the county has increased from less than 2,000 to over 5,500, and the number of farms under 100 acres each in extent has increased from 700 to 3,500; a striking evidence of the transition from the pastoral and grain raising conditions to intensified agriculture. San Joaquin County has \$747,000 invested in county buildings which are models in their class. About \$10,000,000 has been expended in the county during the past two years for railroads and other large enterprises. Agriculture and manufacturing are prosperous.

STATISTICS OF SAN JOAQUIN COUNTY, 1909-10.

General Statistics.	!	General Statistics—Continue	eđ.
Area 1,365 square miles, or 873,6 Number of farms Number of acres assessed	5,520	Railroads, electric — miles, 53; assessed value Electric power plants — 2; as-	\$284,329
Value of country real estate Of improvements thereon	\$17,133,725	sessed value Electric power lines—miles.	\$23,038
Of city and town lots Of improvements thereon	\$7,735,615	77.75; assessed value Number of acres irrigated	\$51,077 275,000
Of personal property Total value of all property	\$6,079,203		_,,,,,,,
Expended on roads, last fiscal		Production.	Value.
year Expended for bridges, last fis-	\$458,130	Butter (pounds) 2,450,000 Cheese	\$637,000 3,000
cal year	\$125,246	Milk sold and con-	
Number of miles of public roads Road levy per \$100, 1910	1,200 37.3c	densed	380,000
Value of county buildings	\$747,000 \$1,750,000	Total value	\$1,020,000
Railroads, steam — miles, 238;		Creameries, 2; skimming sta	tions, 40;
assessed value	\$5,103,869	cheese factories, 2.	

STATISTICS OF SAN JOAQUIN COUNTY, 1909-10-Continued.

Fruits, Vegetables, Etc.	•	Live Stock Inde	nstry.
Green-	Value.		fumber. Value.
Apples	\$9.500	Cattle—Beef	7,900 \$197,500
Apricots Asparagus	41,830	Stock	25,840 568,040
Asparagus	780.000	Dairy Cows-Graded	14,180 567,200
Asparagus Blackberries Beans Beets Cabbage Celery Cauliflower Corn Cherries Figs Gooseherries	17,045 825,000 10,000	Thoroughbred	200 20,000 7,120 56,960 45,200 361,600
Beets	10,000	Swine	45,200 361,600
Cabbage	26,400	Horses-	
Celery	22,000	Standard-bred	15,800 1,975,000
Corn	15,500 18,200 240,500	Common	6,200 465,000 3,500 105,000 5,800 707,600
Cherries	240,500	Colts	5,800 707,600
Figs	6,200	Sheep Lambs Angora and common	49,200 162,360
Gooseberries		Angore and common	4,600 4,600
Grapes (Lemons (boxes) Lemons (boxes) Nectarines	1,441,000 2,200 4,800	goats	350 700
Loganberries	4,800	_	
Nectarines	1,300	Total value	\$5,191 ,560
Onions	438,000	Wool (pounds) 1	70,000 30,000
Olivas (DOXes)	50 700	- ,	•
Onions Oranges (boxes) Olives Pears Peaches	12,000 50,700 35,300	Wines, Brandies,	, Etc.
Peaches	925 100	Ge	allons. Value.
Peas	29,500 19,200 2,145,000 6,200 81,900	Dry wines 90	00,000 \$90,000
Trish notatoes	2.145.000	Sweet wines 4,6 Beer (barrels) 1,5	50,000 980,000
Plums Irish potatoes Sweet potatoes Prunes	6,200	Beer (barrels) 1,50 Brandy 1	00,000 275,000 00,000 40,000
Prunes	81,900	Vinegar	5.00 0
	3.500	Grape syrup	5,000 15,000 18,750
Raspberries Strawberries Tomatoes	2,500 17,000 30,000	Wineries, 110-6 large.	104 small: dis-
Tomatoes	30,000	Wineries, 110—6 large, tilleries 6; breweries 2.	
Melons Other vegetables	75,000		
Other vegetables	80,000	Manufactorie	
Dried— Almonda	Value. \$152 000	<u>N</u>	fumber of Value of imployees. Products.
Apricots	30,000	No. #	
Almonds Apricots Figs	\$152,000 30,000 5,000	Art goods 3 Bookbinderies and	16
Peaches	71.000	DOOKDINGELIES AND	
7	1,500	printers 6	151
Peanuts	4,500 61,000	Canvas articles 2	151 151
Peaches Peanuts Prunes Walnuts	4,500 61,000 8,000	Canvas articles	151
Wainuts	4,500 61,090 8,000	printers	
Total value	4,500 61,090 8,000 \$331,500	Drinters	151
Total value	4,500 61,000 8,000 \$331,500	printers	151 305 4 73
Total value	4,500 61,000 8,000 \$331,500	printers	151 305 4 73 175
Total value	4,500 61,000 8,000 \$331,500	Drinters	151 305 73 175 65
Total value	\$331,500 Value. \$18,000 3,600 485,000 15,000	Drinters	151
Total value Canned— Cases. Grapes 6,000 Pears 900 Peaches 120,000 Plums 5,000 Tomatoes 10,000	\$331,500 Value. \$18,000 3,600 485,000 15,000	Description	151
Total value	\$331,500 \$1,090 \$,000 \$331,500 Value. \$18,000 3,600 485,000 15,000 16,000 358,000	Description	151 305 4 73 175 65 185 185 29 210
Total value Canned— Cases. Grapes 6,000 Pears 900 Peaches 120,000 Plums 5,000 Tomatoes 10,000	\$331,500 Value. \$18,000 3,600 485,000 15,000	Description	151
Total value Canned— Cases. Grapes 6,000 Pears 900 Peaches 120,000 Plums 5,000 Tomatoes 10,000 Asparagus	4,500 61,000 8,000 \$331,500 Yalue. \$18,000 485,000 16,000 \$58,000	Drinters	151 305 4 73 175 65 185 29 210 28 200
Total value	4,500 61,000 8,000 \$331,500 Value. \$18,000 3,600 485,000 15,000 358,000 \$995,600	Description	151
Total value	4,500 61,000 8,000 \$331,500 Value. \$18,000 15,000 16,000 358,000 \$895,600 Vines. 75 220	Drinters	151
Total value Canned	4,500 61,000 8,000 \$331,500 Value. \$18,000 15,000 16,000 358,000 \$895,600 Vines. 75 220	Description	151
Total value Canned— Cases. Grapes 6,000 Pears 900 Pears 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearin Apple 14,250 1,000 Apricot 70,000 4,000 Cherry 39,300 10,200 Fig 8,100 400	4,500 61,000 8,000 \$331,500 Value. \$18,000 3,600 485,000 16,000 358,000 \$895,600 Vines. 75,220 74,000 49,500	Description	151
Total value Canned— Canned— Grapes 6,000 Pears 900 Peaches 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearin Apple 14,250 1,000 Apricot 70,000 4,000 Cherry 39,300 10,200 Fig 8,100 400	4,500 61,000 8,000 \$331,500 Value. \$18,000 3,600 485,000 16,000 358,000 \$895,600 Vines. 75,220 74,000 49,500	Description	151
Total value Canned— Grapes 6,000 Pears 900 Pears 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearing Apple 14,250 Apricot 70,000 4,000 Cherry 39,300 10,200 Cherry 39,300 10,200 Fig 8,100 400 Lemon 1,700 1,200	4,500 61,000 8,000 \$331,500 Value. \$18,000 3,600 485,000 16,000 358,000 \$895,600 Vines. Total. 75,220 74,000 49,500 8,500 2,200	Description	151
Total value Canned— Canned— Grapes 6,000 Pears 900 Pears 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearing Apple 14,250 Apricot 70,000 4,000 Cherry 39,300 10,200 Cherry 39,300 10,200 Fig 8,100 400 Lemon 1,700 1,200 Olive 50,750 5,500 Occarge 10,100 3,900	4,500 61,000 8,000 *****************************	Description	151
Total value Canned— Canned— Grapes 6,000 Pears 900 Pears 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearing Apple 14,250 Apricot 70,000 4,000 Cherry 39,300 10,200 Cherry 39,300 10,200 Fig 8,100 400 Lemon 1,700 1,200 Olive 50,750 5,500 Occarge 10,100 3,900	4,500 61,000 8,000 *****************************	Description	151
Total value Canned— Cases. Grapes 6,000 Pears 900 Peaches 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearing Apple 14,250 1,000 Apricot 70,000 4,000 Cherry 39,300 10,200 Fig 8,100 400 Lemon 1,700 1,200 Cherry 1,700 1,200 Fig 8,100 400 Cherry 39,300 10,200 Fig 8,100 400 Cherry 1,700 1,200 Cherry 20,300 4,000 Cherry 20,000 4,000 Cherry 1,700 1,200 Cherry 1,700 1,200 Cherry 20,000 4,000 Cherry 20,000 4,000	4,500 61,000 8,000 \$331,500 Value. \$18,000 3,600 485,000 16,000 \$58,000 \$895,600 Vines. Total. 75,220 74,000 49,500 8,500 2,200 2,200 56,350	Description	151
Total value Canned— Cases. Grapes 6,000 Pears 900 Peaches 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearing Apple 14,250 1,000 Apricot 70,000 4,000 Cherry 39,300 10,200 Fig 8,100 400 Lemon 1,700 1,200 Cherry 1,700 1,200 Fig 8,100 400 Cherry 39,300 10,200 Fig 8,100 400 Cherry 1,700 1,200 Cherry 20,300 4,000 Cherry 20,000 4,000 Cherry 1,700 1,200 Cherry 1,700 1,200 Cherry 20,000 4,000 Cherry 20,000 4,000	4,500 61,000 8,000 \$331,500 Value. \$18,000 15,000 15,000 15,000 \$895,600 Vines. \$. Total. 75,220 74,000 2,200 2,200 56,250 14,000 255,150 32,000	Description	151
Total value Canned	4,500 61,000 8,000 *****************************	Description	151
Total value Canned— Canned— Grapes 6,000 Pears 900 Pears 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearin Apple 14,250 1,000 Apricot 70,000 4,000 Cherry 39,300 10,200 Fig 8,100 400 Lemon 1,700 1,200 Olive 50,750 5,500 Orange 10,100 3,900 Peach 235,150 20,000 Pear 28,000 4,000 Plum 25,000 5,000 Prune 54,600 8,815 Quince	4,500 61,000 8,000 Value. \$18,000 3,600 485,000 16,000 16,000 16,000 175,220 74,000 49,500 2,200 2,900 14,000 255,150 32,000 30,000 63,415 3,750	Printers 6	151
Total value Canned	\$331,500 Value. \$18,000 \$331,500 Value. \$18,000 3,600 485,000 \$58,000 \$58,000 \$58,000 \$16,000 \$58,000 \$2,000 2,200 2,200 2,200 2,200 2,200 30,000 30,000 3,750 606,915	Printers 6	151
Total value Canned— Grapes 6,000 Pears 900 Pears 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearing Non-bearing 14,250 Apricot 70,000 4,000 Cherry 39,300 10,200 Cherry 39,300 400 Cherry 39,300 400 Cherry 39,300 4,000 Pium 50,750 5,500 Orange 10,100 3,900 Peach 235,150 20,000 Pear 28,000 4,000 Pium 25,000 5,000 Prune 54,600 8,815 Quince Total fruit 536,950 64,015 Almond 127,200 4,000	4,500 61,000 8,000 \$331,500 Value. \$18,000 15,000 15,000 15,000 \$895,600 Vines. \$. Total. 75,220 74,000 2,200 2,900 56,250 14,000 255,150 32,000 63,415 3,750 606,915 131,200	Printers 6	151
Total value Canned— Canned— Canned— Grapes 6,000 Pears 900 Pears 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearin Apple 14,250 1,000 Apricot 70,000 4,000 Cherry 39,300 10,200 Fig 8,100 400 Cherry 1,700 1,200 Cherry 1,700 1,200 Cherry 1,700 1,200 Cherry 235,150 20,000 Peach 235,150 20,000 Peach 235,150 20,000 Pear 28,000 4,000 Plum 25,000 5,000 Prune 54,600 8,815 Quince Total fruit 536,950 64,015 Almond 127,200 4,000 Chestrut 160	4,500 61,000 8,000 *****************************	Description	151
Total value Canned— Canned— Grapes 6,000 Pears 900 Pears 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearing Non-bearing 14,250 Apricot 70,000 4,000 Cherry 39,300 10,200 Cherry 39,300 10,200 Pig 8,100 400 Lemon 1,700 1,200 Olive 50,750 5,500 Orange 10,100 3,900 Peach 235,150 20,000 Pear 28,000 4,000 Plum 25,000 5,000 Prune 54,600 8,815 United States 1,000 Total fruit 536,950 64,015 Almond 127,200 4,000 Chestnut 160 Pecan 225 146	4,500 61,000 8,000 8331,500 Value. \$18,000 3,600 485,000 15,000 15,000 \$58,000 \$895,600 Vines. 5. Total. 75,220 74,000 2,900 56,250 2,900 56,250 30,000 63,415 3,750 606,915 131,200 371	Drinters 6	151
Total value Canned	4,500 61,000 81,000 81,000 Value. \$18,000 16,000 15,000 16,000 \$58,000 \$895,600 Vines. Total. 75,220 74,000 49,500 8,500 2,900 56,250,14,000 30,000 63,750 606,915 131,200 1600 371 27,500	Drinters 6	151
Total value Canned— Canned— Grapes 6,000 Pears 900 Pears 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearing Non-bearing 14,250 Apricot 70,000 4,000 Cherry 39,300 10,200 Cherry 39,300 10,200 Pig 8,100 400 Lemon 1,700 1,200 Olive 50,750 5,500 Orange 10,100 3,900 Peach 235,150 20,000 Pear 28,000 4,000 Plum 25,000 5,000 Prune 54,600 8,815 United States 1,000 Total fruit 536,950 64,015 Almond 127,200 4,000 Chestnut 160 Pecan 225 146	4,500 61,000 8,000 8331,500 Value. \$18,000 3,600 485,000 15,000 15,000 \$58,000 \$895,600 Vines. 5. Total. 75,220 74,000 2,900 56,250 2,900 56,250 30,000 63,415 3,750 606,915 131,200 371	Drinters 6	151
Total value Canned— Cases. Grapes 6,000 Pears 900 Pears 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearin Apple 14,250 1,000 Apricot 70,000 4,000 Cherry 39,300 10,200 Fig 8,100 400 Cherry 39,300 10,200 Fig 8,100 400 Cherry 1,700 1,200 Olive 50,750 5,500 Orange 10,100 3,900 Orange 10,100 3,900 Peach 235,150 20,000 Peach 235,150 20,000 Pear 28,000 4,000 Plum 250,000 5,000 Prune 54,600 8,815 Quince Total fruit 536,950 64,015 Almond 127,200 4,000 Chestnut 160 Pecan 225 146 Walnut 8,500 19,000 Total nut 136,085 23,146	4,500 61,000 81,000 81,000 Value. \$18,000 3,600 485,000 16,000 858,000 \$895,600 Vines. Total. 75,220 74,000 49,500 2,200 2,900 255,150 32,000 30,000 63,415 3,750 606,915 131,200 775,923	Drinters 6	151
Total value Canned— Canned— Grapes 6,000 Pears 900 Pears 120,000 Plums 5,000 Tomatoes 10,000 Asparagus Total value Number of Fruit Trees and Bearing Non-bearing Non-bearing 14,250 Apricot 70,000 4,000 Cherry 39,300 10,200 Cherry 39,300 10,200 Pig 8,100 400 Lemon 1,700 1,200 Olive 50,750 5,500 Orange 10,100 3,900 Peach 235,150 20,000 Pear 28,000 4,000 Plum 25,000 5,000 Prune 54,600 8,815 United States 1,000 Total fruit 536,950 64,015 Almond 127,200 4,000 Chestnut 160 Pecan 225 146 Walnut 8,500 19,000 Total nut 136,085 23,146	4,500 61,000 81,000 81,000 Value. \$18,000 16,000 15,000 16,000 \$58,000 \$895,600 Vines. Total. 75,220 74,000 49,500 8,500 2,900 56,250,14,000 30,000 63,750 606,915 131,200 1600 371 27,500	Printers 6	151

STATISTICS OF SAN JOAQUIN COUNTY, 1909-10-Continued.

Cereal Products and Hay.	•	Poultry and Eggs.	
Tons of 3,000 pounds. Wheat 11,500 224,000 Barley 243,600 4,834,800 Oats 34,560 1,036,800 Rye 7,500 86,250	Value. \$189,980 2,395,482 518,400 77,625	Chickens Dossen. 5000 35,000 Ducks 310 Geese 200 Turkeys 1,640 Eggs 3,200,000	Value. \$210,000 3,100 3,000 32,800 800,000
Corn 2,600	68,000	Total value	\$1,048,900
Total cereals.299,760	\$8,249,487	Fish Industry.	
Affalfa hay	Value. \$579,600 1,680,000 21,000	All kinds	Value. \$35,000
		Bees (hives), number. Pounds. 495	Value. \$5,600
Forest Products.		Beeswax 1,600	160 16,000
Fuel, wood (cords) Amount.	Value. \$72,000	Flax (acres)	
Power used for mills and man in county—Steam (number), 24; (number), 78; natural gas (num	electrical	(acres)	8,000 7,50 0
gasoline (number), 18.	mber), II;	Total value	\$40.260

SAN MATEO COUNTY.

San Mateo County is that part of the San Francisco peninsula lying between San Francisco County on the north and Santa Clara and Santa Cruz counties on the south. This county is divided lengthwise by the Santa Morena ridge of mountains, forming the backbone of the peninsula. The mountain ridge is the fertile and picturesque watershed of a region peculiarly adapted for homes of beauty and comfort on its eastern slope. Along the bay shore are many miles of deep water, and spur tracks to this deep water are now under construction, thereby opening up vast possibilities to manufacturers who desire cheap sites with excellent shipping facilities. The Dumbarton bridge over San Francisco Bay has been completed within the year, and trains are now running from points in this State and the East directly to San Francisco without ferrying across San Francisco Bay.

On the west the descent to the Pacific is quick and abrupt into a region occupied by prosperous farmers, dairymen, stock raisers, and lumbermen. The whole ridge is everywhere accessible, full of springs, and all more or less covered with oak and redwood.

The United State census returns show that the increase in population from 1900 to 1910 was 119 per cent, there being but three counties in the State with a greater percentage of increase in population in the same period. Convenience of travel, climatic and scenic surroundings, educational advantages, shipping facilities, proximity to the metropolis of the Pacific coast are all favorable conditions working toward the prosperity of this county.

STATISTICS OF SAN MATEO COUNTY, 1909-10.

		,			
G	eneral St	atistics.	•	Fruits, Vegetables, Etc.	
Area 477 square	miles,	or 305,280 ac	eres.	Total	
Number of farr			563	Production.	
Number of acre			297,000	Green— Pounds.	Value.
Value of countr				Apples 315,000	\$6 0,000
			4.454.310	Apricots 10,000	5,000
Of improvemen				Blackberries 1,500	120
Of city and tow			8,537,620	Beans 300,000	17,000
Of improvemen			2,664,790	Beets 250,000	1,200
Of personal pro		• • • • • • • • • • • • • • • • • • •	2,200,800	Cabbage18,000,000	180,000
Total value of			8,733,020	Celery 170,000	13,500
Expended on r	oads, la	st fiscal		Cauliflower 5,500,000	55,000
year			\$87,040	Corn 60.000	1,200
Expended for l	ridges.	last fis-			
cal year			\$21,288	Onions 225,000	4,100
cal year Number of mile	s of nub	lic roads	470	Pears 7,000	190
Road levy per	191	0	50c	Peaches 3,700	150
Value of county		~~	\$273,000	Peas 200,000	12,000
			\$213,000	Irish potatoes 4,000,000	40,000
Railroads, ster		1168, 40,	\$620,340	Strawberries (chests). 230	1,840
assessed valu	е	• • • • • • • •	\$02U,34U	Tomatoes 150,000	1,500
				Artichokes 1.500.000	19,000
Number of	Fruit T	rees and Vi	nes.		
	Bearing.	Non-bearing.	Total.	Totals30,692,430	\$401,800
Apple	30,000	6.000	36,000		¥102,000
Apricot	3.000		3,000	Dried— Pounds.	
Olive	8,000	2,500	10,500	Beans 1,000,000	
Orange	200	-,0,0	200	Onions 90,000	
Peach	850		850	Prunes 225,000	
Pear	650		650		
	150		150	Total 1.315,000	
Plum		******		10002	
Prune	13,000	1,500	14,500	Dairy Industry.	
		10.000	45 050		W-1
Total fruit	55,850	10,000	6 5,850	Production.	Value.
Almond	500		500	Skimming stations 502,700	\$143,000
Pecan	1.000		1,000	Butter (pounds) 717,200	107,000
Other nuts	1,500		1,500	Milk (gallons) 1,500,000	300,000
Grapevines	179,000	9,000	188,000	Cream (gallons) 10,000	6,000
		,	200		
Berries, acres.	200		400	CICALILETTES, 4.	

STATISTICS OF SAN MATEO COUNTY, 1909-10-Continued.

Cereal Products and Hay Tons of 2,000 pounds.	y.	Poultry and Eggs. Dozen.	Value.
	Value.	Chickens 6.000	\$30,000
Wheat 1,064 453	\$15,438	Ducks 150	675
Barley 1,000 700	20,000	Geese 50	600
Oats 16,000 10,000	270,000	Turkevs 80	1,120
Corn 40 20	640	Eggs 200,000	3,500
		Total value	\$35,895
Total cereals 18,104 Grain hav 7,500 20,000	\$306,078 \$245,000	 	400,000
Grain hay 7,500 20,000	#230,000	Miscellaneous Products.	
Live Stock Industry.		Pounds.	Value.
Number.	Value.	Flowers and plants	
Cattle—Beef 1,200	\$36,0 00	(acres) 500	\$500,000
Stock 3,400	85,000	Onion seed 100,000	25,000
Dairy Cows—Graded 12,798	319,950	Manufactories.	
Thoroughbred—	40.000		
Jersey 300	12,000	Number of No. Employees.	
Shorthorns 300 Calves 5.000	12,000 25,000	Wood hoves 1 8	\$6,000
	36,000	Cigars 2 7	12,000
Swine 6,000 Horses—Common 2,500	125,000	Foundries and iron	,
Colts	5,000	works 2 270	2,000,000
Mules 50	3,000		
Sheep	15,000	Hides	250,000
Lambs 500	1,000	Lard	450,000
Common goats 150	750	Meat packed	250,000
		Tallow	160,000
Total stock 35,448	\$ 675,700	Olive oil	3,000,000
Wool (pounds) 12,000	2,400	Planing mills 13 120 Potteries 1 150	1.750.050
.,	_,	Salt 3 70	175,000
Forest Products.		Tanneries 2 320	1.600,000
Amount.	Value.	Fuse works 1 50	200,000
Area of timber lands	** ***	Paint works 1 200	
(acres) 25,000	\$1,250,000 1,250,000	Turne works 2 200	
Redwood (acres) 25,000 Sawmills (number) 5	75,000	Manufactured Output.	
Fuel, wood (cords) 2,750	16.500	•	Quantity.
Lumber (feet)15,000,000	300,000	Brick (thousand)	2,500
Shingles (thousand) 7,000	14,000	Cigars (thousand)	50
billing.co (thouballu) 1,000		Hides (pounds)	1,000,000
Total value	\$2,905,500	Lard (pounds)	6,000,000
Wines, Brandies, Etc.		Meat packed (pounds) Tallow (barrels)	4,000,000 8,000
Gallons.	Value.	Olive oil (gallons)	200
Dry wines		Salt (tons)	4,000

SANTA BARBARA COUNTY.

Santa Barbara County is situated in the parallelogram formed by the trend in the California coast line made by Point Concepcion, the great continental headland. Its coast line is thus of considerable extent, being in fact about 100 miles in length. A chain of mountains, the Santa Ynez range, divides the county into two grand divisions. The southern division is the most populous, and contains Santa Barbara, the county seat, which has a population of about 12,000. The surrounding country is agricultural, being devoted to the culture of walnuts, olives, lemons, and beans in large quantities.

The northern part contains four large valleys. Lompoc Valley is a very prosperous and fertile agricultural section, Santa Ynez Valley is largely devoted to the raising of grain, as is the Los Alamos Valley. The Santa Maria Valley is the largest in southern California. Here is located the Union Sugar Company's factory at Betteravia. The hills on the southern side of this valley are the center of oil activity. Barley, beans, oats, and poultry form sources of large revenue to the

inhabitants.

Santa Barbara has the best harbor in the county. There are large areas yet uncultivated, and the county is ripe for immigration. Movements to bring colonies here are under way. There is considerable activity in building, and Santa Barbara County is enjoying its full meed of prosperity.

STATISTICS OF SANTA BARBARA COUNTY, 1909-10.

General Statistics.	Number of Fruit Trees and Vines.
Area 2,630 square miles, or 1,810,665 acre	8. Bearing. Non-bearing. Tetal.
Number of farms 1,4	
Number of acres assessed 1.067.1	32 Apricot 21,450 1,200 22,650
Value of country real estate \$11,356,7	10 Cherry 700 700
Of improvements thereon \$1,768,6	5 Fig 100 100
Of city and town lots \$4,483,4	75 Lemon 110,000 25,600 135,600
Of improvements thereon \$4,321,5	05 Nectarine 250 250
Of personal property \$5,927.7	12 Olive 25.600 8.750 34.350
Total value of all property \$27,858,0	77 Orange 700 250 950
Expended on roads, last fiscal	Peach 6325 1300 7625
year \$156,6	⁴² Pear 1,250 300 1.550
Expended for bridges, last fis-	Plum 100 50 150
cal year	
Number of miles of public roads	Quince 100 100
(estimated)	
	5c
Value of county buildings \$200,0	00 Total fruit 188,825 39,250 228,075
Railroads, steam—miles, 174.85; assessed value	18 Almond 100 100
assessed value	Walnut 35,750 22,500 58,259
assessed value \$28,0	
Electric power plants — 3; as-	Total nut 35,850 22,500 58,350
sessed value \$316,5	no l
	Berries, acres
Cereal Products and Hay.	Wines, Brandies, Etc.
Tons of 2,000 pounds.	
Acres. Bushels. Value	. [
Wheat 2,000 20,000 \$15,0	00 Sweet wines 80,000 \$15,000
Barley 35,000 1,155,000 475,0	ññ l
Oats 10,000 360,000 135,0	
Corn 1,015 40,000 15,0	
	All kinds 1,900,000 \$152,000
Total cereals 1,575,000 \$640,0	00
Agres. Tons. Value	Dairy Industry.
	N. D. Augusten Walne
Alfalfa hay 100 300 \$4,0 Grain hay 35,500 45,000 500,0	
G.LSTIT HS'A 99'900 49'400 900'6	Butter (pounds) 400,000 128,000
Total hay 35,600 45,300 \$504,6	00 Creameries, 2.

STATISTICS OF SANTA BARBARA COUNTY, 1909-10—Continued. Fruits. Vegetables. Etc. Live Stock Industry.

Fruits, Vegetables, Etc.		Live Stock Industry.
Total		Number. Value.
Production.		Cattle—Beef 1,500 \$75,000
Green— Pounds.	Value.	Stock 25,705 850,000
Apples 650,000	\$7,000	
	2,800	Dairy Cows—Graded 7,600 300,000
		Thoroughbred—
Blackberries 75,000	2,700	Ayrshire 50 3,750
Beets (tons) 85,000	1,500,000	Holsteins 15 1,000
Cherries 50,000	3,000	Jersey 300 10,000
Figs 20,000	1,200	Calves 2,650 25,000
Grapes 100,000	1,000	Swine 7,200 40,000
Grape fruit (boxes) 500	500	Horses—
Lemons (boxes) 60,000	150,000	Standard-bred 40 10,000
	3,000	Common 6,350 625,000
Loganberries 100,000		
Nectarines 20,000	500	Total stock 119,525 \$2,241,750
Onions 4,500,000	45,000	Wool (pounds) 165,000 21,450
Oranges (boxes) 800	1,500	(Pounds) !!!!!! mosjete ==
Olives 600,000	16,500	Forest Products.
Pears 400,000	9,000	Amount. Value.
Peaches 100,000	2,000	
Peas 300,000	12,000	Pine (acres) 2,500
Persimmons 300,000	12,000	Paper pulp (pounds)75,000,000 \$600,000
	44,550	Power used for mills and manufactories
Irish potatoes 3,300,000		in county-Steam (number), 40; electrical
Sweet potatoes 40,000	1,000	(number), 5.
Prunes 100,000	250	
Raspberries 16,000	1,000	Manufactories.
Strawberries 175,000	7,000	Number of Value of
Rhubarb 2,000	500	No. Employees. Products.
Miscellaneous 100,000	5.000	
2210001100010000		
Total value	\$1,829,000	Brick 3 12 13,600
TOTAL ASTIGE	φ1,020,000	Carriages and
Deled Bounds	Value	wagons 5 20 6,000
Dried Pounds.	Value.	wagons 5 20 6,000 Cigars 2 5 8,000
Apricots 136,000	\$12,240	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000
Apricots	\$12,240 1,295,000	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 5 5 6
Apricots 136,000	\$12,240	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron works 1 6 15,000
Apricots	\$12,240 1,295,000	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron works 1 6 15,000
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000	\$12,240 1,295,000 280,500	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 1 6 15,000 Leather goods 6 10 10,000
Apricots	\$12,240 1,295,000	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 6 15,000 works 1 6 15,000 Leather goods 6 10 10,000 Lime 1 10 50,000
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000 Totals 37,076,000	\$12,240 1,295,000 280,500	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 1 6 15,000 Leather goods 6 10 10,000 Lime 1 10 50,000 Meat products 10 60
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000	\$12,240 1,295,000 280,500	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 1 6 15,000 Leather goods 6 10 10,000 Lime 1 10 50,000 Meat products 10 60 Hides 18,900
Apricots	\$12,240 1,295,000 280,500 \$1,587,740	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 1 6 15,000 works 1 6 10,000 Lime 1 10 50,000 Meat products 10 60 18,900 Hides 18,000 18,000 Lard 25,000
Apricots	\$12,240 1,295,000 280,500 \$1,587,740 Value.	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 6 15,000 10,000 Leather goods 6 10 10,000 Lime 1 10 50,000 Meat products 10 60 Hides 1 25,000 Lard 25,000 25,000 Meat packed 5,000
Apricots	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500	wagons 5 20 6,000 Clgars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 5 1 6 15,000 Leather goods 6 10 10,000 10
Apricots	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 500	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 6 15,000 works 1 6 15,000 Leather goods 6 10 50,000 Meat products 10 60 Hides 18,900 18,900 Lard 25,000 5,000 Meat packed 5,000 7,500 Tallow 7,500 7,500 Olive oil 1 20 19,250
Apricots	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 500 150	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 6 15,000 works 1 6 15,000 Leather goods 6 10 10,000 Lime 1 60 18,000 Meat products 10 60 Hides 18,000 18,000 Lard 25,000 25,000 Meat packed 5,000 7,500 Olive oil 1 20 19,250 Iron pipe 1 3 1,000
Apricots	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 500 150 600	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 1 6 15,000 works 1 6 10,000 Lime 1 10 50,000 Meat products 10 60 Hides 18,900 13,000 Lard 25,000 25,000 Meat packed 7,500 Olive oil 1 20 19,250 Iron pipe 1 3 1,000 Planing mills 3 30 120,000
Apricots	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 500 150 600	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 6 15,000 works 1 6 15,000 Leather goods 6 10 10,000 Lime 1 10 50,000 Meat products 10 60 Hides 18,900 25,000 Lard 25,000 5,000 Tallow 7,500 7,500 Olive oil 1 20 19,250 Iron pipe 1 3 1,000 Planing mills 3 30 120,000 Artificial stone 1 5 6,500
Apricots	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 500 150	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron works 1 6 15,000 Leather goods 6 10 10,000 Lime 1 10 50,000 Meat products 10 60 18,000 Lard 25,000 25,000 Meat packed 5,000 Tallow 7,500 7,500 7,500 Olive oil 1 20 19,250 Iron pipe 1 3 1,000 Planing mills 3 30 120,000 Artificial stone 1 5 6,500 Sugar, beet 1 900 1,500,000
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000 Totals 37,076,000 Poultry and Eggs. Dosen. Chickens 9,000 Ducks 100 Geese 225 Turkeys 50 Eggs 300,000	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 500 150 600 112,000	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 6 15,000 works 1 6 15,000 Leather goods 6 10 10,000 Lime 1 60 18,900 Hides 1 25,000 5,000 Hard 25,000 7,500 7,500 Olive oli 1 20 19,250 Iron pipe 1 3 1,000 Planing mills 3 30 120,000 Artificial stone 1 5 6,500 Sugar, beet 1 900 1,500,000 Miscellaneous 5 30 50,000
Apricots	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 500 150 600	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron works 1 6 15,000 Leather goods 6 10 10,000 Lime 1 10 50,000 Meat products 10 60 18,000 Lard 25,000 25,000 Meat packed 5,000 Tallow 7,500 7,500 7,500 Olive oil 1 20 19,250 Iron pipe 1 3 1,000 Planing mills 3 30 120,000 Artificial stone 1 5 6,500 Sugar, beet 1 900 1,500,000
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000 Totals 37,076,000 Poultry and Eggs. Dosen. Chickens 9,000 Ducks 100 Geese 25 Turkeys 50 Eggs 300,000 Total value	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 150 600 112,000 \$144,750	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 1 6 15,000 works 1 6 10,000 Leather goods 6 10 50,000 Meat products 10 60 Hides 18,000 18,000 Lard 25,000 7,500 Meat packed 5,000 7,500 Olive oii 1 20 19,250 Iron pipe 1 3 1,000 Planing mills 3 30 120,000 Artificial stone 1 5 6,500 Sugar, beet 1 900 1,500,000 Diamaceous earth 1 10 10,090
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000 Totals 37,076,000 Poultry and Eggs. Dosen. Chickens 9,000 Ducks 100 Geese 225 Turkeys 50 Eggs 300,000	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 150 600 112,000 \$144,750	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron 1 6 15,000 works 1 6 10,000 Leather goods 6 10 50,000 Meat products 10 60 Hides 18,900 18,900 Lard 25,000 5,000 Meat packed 5,000 7,500 Tallow 7,500 7,500 Olive oil 1 20 19,250 Iron pipe 1 3 1,000 Planing mills 3 30 120,000 Artificial stone 1 5 6,500 Sugar, beet 1 900 1,500,000 Miscellaneous 5 30 50,000 Diamaceous earth 1 10 10,000
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000 Totals 37,076,000 Poultry and Eggs. Dosen. Chickens 9,000 Ducks 100 Geese 25 Turkeys 550 Eggs 300,000 Total value Miscellaneous Products.	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 500 150 600 012,000 \$144,750	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron works 1 6 15,000 Leather goods 6 10 10,000 Lime 1 10 50,000 Meat products 10 60 18,000 Hides 25,000 25,000 Meat packed 5,000 19,250 Tallow 7,500 7,500 Olive oil 1 20 19,250 Iron pipe 1 3 1,000 Planing mills 3 30 120,000 Artificial stone 1 5 6,500 Sugar, beet 1 90 1,500,000 Miscellaneous 5 30 50,000 Manufactured Output Guantity.
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000 Totals 37,076,000 Poultry and Eggs. Dosen. Chickens 9,000 Ducks 100 Geese 25 Turkeys 550 Eggs 300,000 Total value Miscellaneous Products. Pounds.	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 500 150 600 112,000 \$144,750 Value.	wagons
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000 Totals 37,076,000 Poultry and Eggs. Dosen. Chickens 9,000 Ducks 100 Geese 25 Turkeys 50 Eggs 300,000 Total value Products. Pounds. Bees (hives), number. 1,000	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 500 150 600 012,000 \$144,750	wagons
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000 Totals 37,076,000 Poultry and Eggs. Dosen. Chickens 9,000 Ducks 100 Geese 25 Turkeys 550 Eggs 300,000 Total value Miscellaneous Products. Pounds. Bees (hives), number. Flowers and plants	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 150 600 112,000 \$144,750 Value. \$10,000	wagons
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000 Totals 37,076,000 Poultry and Eggs. Dosen. Chickens 9,000 Ducks 100 Geese 25 Turkeys 550 Eggs 300,000 Total value Products. Pounds. Bees (hives), number. 1,000 Flowers and plants (acres) 70	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 500 150 600 112,000 \$144,750 Value.	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron works 1 6 15,000 works 1 6 10,000 10,000 Lime 1 10 50,000 Meat products 10 60 18,900 Lard 25,000 Meat packed 5,000 Tallow 7,550 7,500 Olive oil 1 20 19,250 Iron pipe 1 3 1,000 Planing milis 3 30 120,000 Artificial stone 1 5 6,500 Sugar, beet 1 90 1,500,000 Miscellaneous 5 30 50,000 Diamaceous earth 1 10 10,000 Brick (thousand) 2 1,700 Cigars (thousand) 1 1,700 Lime (barrels) <td< td=""></td<>
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000 Totals 37,076,000 Poultry and Eggs. Dosen. Chickens 9,000 Ducks 100 Geese 25 Turkeys 50 Eggs 300,000 Total value Products. Pounds. Bees (hives), number. 1,000 Flowers and plants (acres) 70	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 150 600 112,000 \$144,750 Value. \$10,000	wagons
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000 Totals 37,076,000 Poultry and Eggs. Dosen. Chickens 9,000 Ducks 100 Geese 25 Turkeys 50 Eggs 300,000 Total value Miscellaneous Products. Pounds. Bees (hives), number. 1,000 Flowers and plants (acres) 70 Honey 200,000	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 150 600 112,000 \$144,750 Value. \$10,000 100,000	wagons
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000 Totals 37,076,000 Poultry and Eggs. Dosen. Chickens 9,000 Geese 25 Turkeys 550 Eggs 300,000 Total value Miscellaneous Products. Pounds. 1,000 Bees (hives), number. Flowers and plants (acres) 70 Honey 200,000 Sugar beets (tons) 85,000	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 500 150 600 112,000 \$144,750 Value. \$10,000 10,000 1,500,000	wagons
Apricots 136,000 Beans 35,000,000 Walnuts 1,940,000 Totals 37,076,000 Poultry and Eggs. Dosen. Chickens 9,000 Ducks 100 Geese 25 Turkeys 50 Eggs 300,000 Total value Miscellaneous Products. Pounds. Bees (hives), number. 1,000 Flowers and plants (acres) 70 Honey 200,000	\$12,240 1,295,000 280,500 \$1,587,740 Value. \$31,500 150 600 112,000 \$144,750 Value. \$10,000 100,000	wagons 5 20 6,000 Cigars 2 5 8,000 Confectionery 5 14 55,000 Foundries and iron works 1 6 15,000 works 1 6 10,000 Leather goods 6 10 10,000 Meat products 10 60 Hides 18,900 Hides 25,000 Meat packed 5,000 10 10 12,000 Mat packed 5,000 19,250 10 10,000 10 10,000 Tallow 7,500 10 120,000 120,000 120,000 120,000 120,000 Artificial stone 1 5 6,500 120,000 120,000 15,000,000 15,000,000 10,000 15,000,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000

SANTA CLARA COUNTY.

Santa Clara County is situated on the south arm of San Francisco Bay, and is separated from the Pacific Ocean by one tier of counties. The county seat is San Jose, and is distant 50 miles from San Francisco. The county is 47 miles wide from north to south, and through the center runs the favored Santa Clara Valley, with an average width of 15 miles. The country from the valley slopes upward through rolling hills to the summit of the Mount Diablo range of mountains on the east and to the summit of the Santa Cruz Mountains on the west. Its peculiar location with reference to prevailing winds and ocean currents has a marked effect on the climate, rendering it pleasantly cool in summer and not too cold in winter. The average winter temperature is about 40° and in summer 70°. It is preëminently the horticultural county of California. The statistics accompanying this report shows the variety and quantity of its products.

Its roads are excellent, and make all points easily accessible. than 300 miles of these roads are sprinkled during the summer months. Three lines of railroads connect it with the outside world. tion is 70,000. San Jose, the county seat has a population of 30,000. Many flourishing towns and valleys are within its borders. Educational interests are represented by the Leland Stanford Junior University, the Santa Clara College, the University of the Pacific, The College of Notre Dame, and the State Normal School, together with numerous private seminaries and institutions for special educational work. In the public school system there are eight high schools and 104 grammar and primary The annual expenditure for public schools is \$311,500. in addition to the municipal expenditures by cities and towns for this purpose. The value of school property is \$910,832.

The valley is drained by a number of streams. In summer their watercourses greatly diminish and the smaller ones wholly disappear. Having their sources in the surrounding hills and sinking as they approach the valley, they augment the subterranean supply of the arte-These are all over the valley, usually from 60 to 100 feet in depth, though some find a larger and more permanent supply at a much greater depth.

The extent and value of agricultural, horticultural, and industrial

interests can be gathered from the accompanying statistics.

STATISTICS OF SANTA CLARA COUNTY, 1909-10.

DIMITOTION OF DIMITI		
General Statistics.	General Statistics—Continued.	
	Number of miles of public roads 1,011 Road levy per \$100, 1910 40c	
Number of farms		
Value of country real estate \$27,322,810		
Of improvements thereon \$11.501,980	Electric power plants, assessed	
Of personal property \$5,622,405		
Expended on roads, last fiscal	value \$41,660	
Value of country real estate \$27,322,810 Of improvements thereon \$8,345,490 Of city and town lots \$17,394,550 Of improvements thereon \$1,501,980 Of personal property \$5,622,405 Total value of all property \$71,087,235 Expended on roads, last fiscal year \$220,935 Expended for bridges, last fis- \$220,935	Railroads—Steam, assessed value \$2,914,721 \$864,003 Electric power plants, assessed value \$315,730 Electric power lines, assessed value Telephone Lines — Miles wire, 1,529; poles, 7,950; assessed	



STATISTICS OF SANTA CLARA COUNTY, 1909-10-Continued.

Cereal Product		•	Fruits, Vegetables, Etc.	
Acres.	-	Value.	Total Production.	
Wheat 1,000			Green— Pounds.	Value.
Barley 4,000	92,500	\$21,600 55,000	Apples 1,500,000	\$80,000
Oats 1,000	30,000	20,250	Apricots	400,000
Total cereals 6,000	150,000	\$96,850	Asparagus	187,500 34,400 30,000
Alfolfo horr 1 500	Tons.	Value.	Beets 260,000	2,600
Alfalfa hay 1,500 Grain hay 7,000	7,500 15,000	\$75,000 135,000	Cabbage 437,500 Celery 171,875	4,000
Grass hay 2,000	3,000	18,000		5,290
Total hay 10,500		\$228,000	Cauliflower 117,000 Corn 1,812,500	4,400 37,500
Number of Fruit T	'rees and '	Vines	Cherries 5,625,000 Figs 75,000	178,500 2,500
Bearing.	Non-bearin		Grapes 2.376.000	23,760
Apple 17,200	32,500	49,700	Lemons (boxes) 1,620	1,620
Apricot 544,000	11.300	555,300	Loganberries 275,000	5,500
Cherry 137,700	21,900	159,600	Onions	3,960
Fig	710	2,410 2,920	Olives 600,000	1,800 20,000
Lemon 2,600 Nectarine 1,000	320 520	1,520	Pears 9,500,000	200,000
Olive 10,800	4,500	15.300	Peaches 35,000,000	350,000
Orange 1,250	705	1,955	Peas 2,500,000	50,000
Peach 592,500	40,300	1,955 632,800 141,750	Irish potatoes 1,150,000	23,000
Pear 126,200 Plum 271,000	15,550 20,70 0	141,750	Prunes 80,000,000	1,600,000
Prune5,257,900	416,000	291,700 5,673,900	Quinces	10,000
Quince 2,600	320	2,920	Strawberries 944,000	32,000 40,000
Total fruit6,966,450	565,325	7,531,775	Tomatoes 30,000,000	150,000
Almond 18,100	4,750	32,850	Totals222,493,295	\$3,692,170
Walnut 11,025	2,800	13,825	Dried Pounds.	Value.
Total nut 29,125	7,550	36,675	Almonds 320,000 Apricots 8,000,000	\$48,000 80,000
Grapevines,			Beans 316,800	12.840
(acres) 4,117	4,300	8,417	Onions 820,800	8,210
		•	Pears 200,000	16,000
Wines, Brand			Peaches	350,000
	Gallons.	Value.	Prunes	1,995,000
Dry wines	1,000,000	\$250,000		54,000
Sweet wines	25,000 350,000	25,000 350 000	Totals 55,022,600	\$2,564,050
Beer (barrels)	95.000	350,000 725,000	Canned— Cases.	Value.
Brandy	450,000	670,000	Apples 7.500	
Alconol	2,000,000	2,400,000	Apricots 67,500	\$15,000 168,750
Total value	`	\$4,420,000	Grapes	36,000
Number of wineries,			Peaches 50,000	180,000 150,000
tilleries, 11; number of	breweries	, 6.	Peas 100.000	300,000
			Plums 8,000	20,000
Dairy Ind	Production.	Value.	Tomatoes 200,000	200,000
Creameries 13		\$285,000	Totals 505,000	\$1,069,750
Butter (pounds) Cheese (pounds)	270,800 450,000	85,000 86,500	Poultry and Eggs.	
			Dozen.	Value.
Total value		\$4 56,500	Chickens 80,000	\$258,000
Live Stock	Industry.		Ducks 7,000	28,000
	Number.	Value.	Geese 300	4,500
Cattle_Beef	1,500		Turkeys 500 Eggs 1,000,000	10,000 250,000
Stock	12,400	\$45,000 223,200		
Dairy Cows—Graded Thoroughbred—	6,840	239,400	Total value	\$550,500
Angus	460 5 020	23,000	Forest Products.	
Calves	5,020 5,250	60,240 21,000	Amount.	Value.
Swine	95	20,900	Area of timber lands	e EE0 000
Standard-bred	260	39,000	(acres) 60,000 Cedar (acres) 50,000	\$550,000 5,000,000
Colta	13,070	530,500	Redwood (acres) . 10,000	300,000
Colts	1,875 44	37,500 440	Redwood (acres) . 10,000 Fuel, wood (cords) 35,000 Sash and door fac-	160,000
Mules	250	12,500	Sash and door fac- tories (number) 5	100 000
Sheep	950	2.850	tories (number) 9	100,000
Lambs	450 155	1,350	Total value	\$1,610,000
Angora goats	155 34 0	775 340	Power used for mills and man	ufactories
		\$1 957 00F	in county—Steam (number), 230; (number), 120; water (number),	electrical
Total stock	48,959	φ1,401,995	(number), 120; water (number),	4.

STATISTICS OF SANTA CLARA COUNTY, 1909-10-Continued.

Miscellaneous	Products.		Manufactories-	c	ontinued.	
Flowers and plants	Pounds.	Value.	,		Number of Employees	
(acres)	150	\$100,000	Jewelry		5	\$7,000
Garden seed	4,000,000	400,000	Leather goods	15	40	100,000
Sugar beets (tons)	12,000	120,000	Meat products-			,
Quicksilver (flasks)	2,50 0	102,000	Slaughtered	• •		135,000
	-	A=00 000	Hides	• •		86,000
Total value	• • • • • • • •	\$722,000		• •	• • • • • •	2,500
	_		Tallow	• •	20.850	1,200
* Manufact	ories.		Olive oil	• •	40.000	61,000 20,000
	Number of	Value of	Planing mills		625	250,000
	o. Employees.		Potteries		20	30,000
	2 56	\$91,400	Soap		8	34,000
	3 25	70,000	Artificial stone	6	35	100,000
Brick	5 105	100,000	Granite and marble	5	61	200,000
Brooms	1 103	2,000	Tanneries	2	120	360,000
Carriages and		00 000	Tin and galvanized	-		105 000
wagons 1		9 6,00 0 60 ,0 00	William and mondan	7	70	135,000
Cigars 1 Coffee, spices, etc		150,000	Willow and wooden	1	1	1.800
Confectionery 2		140,000	Ware	_		1,000
Electrical supplies		75,000	carving	1	1	1,600
Foundries and iron		10,000	Miscellaneous	8Ö	900	8,500,000
works 1		252,000			_	
Furniture	5 15	20,000	Total value			6,141,500



SANTA CRUZ COUNTY.

Santa Cruz County fronts its entire length on the Pacific Ocean. It lies midway between Oregon and Lower California, and is in the heart of Central California. It is separated from San Mateo and Santa Clara counties by the Santa Cruz Mountains, and from Monterey County by the Pajaro River. It is one of the smallest counties, and comprises a narrow strip of mountainous land about 40 miles long and 18 miles broad, forming a vast amphitheater, and sloping from the summits of the Santa Cruz range, whose highest elevation, Loma Prieta, is 4,000 feet, southward and westward to the bay of Monterey.

The curving line of shore and the corresponding curve of the mountain line inclose an irregular, crescent-shaped tract of country, with an average width of 20 miles, which for grandeur, beauty, and variety of scenery equals any expanse of similar size in the world. The sides of the mountains are closely set with forests of pine, redwood, madrone, and other trees, the redwoods having, in many cases, attained gigantic

growth.

A number of streams rise in these hills, and bring down the rich alluvial loam into the valleys, which, in their normal condition, teem with native grasses and flowers, and when cultivated yield phenomenal results. These streams are, agriculturally as well as topographically, an important feature, watering as they do every section of land. Besides these, natural springs are innumerable. Nearing the coast, there are many interesting topographical features. The leagues of wide, high, wind-swept grassy plateaus, which form remarkable grazing and dairy lands; the succession of chalk terraces; the broad amphitheatrical valley of the Pajaro; the salt lagunas, picturesque in configuration and surrounded by park-like groves of live oaks; the high sandstone cliffs along the shore; the magnificent ocean drives—all are materials for pleasant investigation.

Along the coast line, a series of raised benches forms a strip of elevated land. This widens to the south of the city of Santa Cruz, and affords a large area of fruitful soil, which has been brought into a high state of cultivation. From Santa Cruz City south the soil consists of

light loam, abounding in lime, potash, and phosphoric acid.

In the Pajaro Valley there is a great variety from the rich sedi-

mentary alluvial wash to the light, sandy soil of the foothills.

In the lower part of the valley a clayey loam predominates. This is followed by a heavy adobe higher up, and then the dark, reddish loam of the plains, the latter being the favorite with fruit growers, for it is here that flourish the best orchards.

The average annual rainfall, taken from a record of thirty-four consecutive years, is 25.26 inches, showing that this is a well watered dis-

trict.

The charm of Santa Cruz is her infinite variety. In lumber products she ranks third in the State. Her butter, cheese and cream might well win her a place in the dairy districts. Hay, grain, potatoes, and the whole range of cereals and vegetables give enormous yields. In the



Department of Agriculture at Washington, D. C., there is a record of 130 bushels of wheat per acre raised in the Pajaro Valley, and while she does not claim to wear the "citrus belt," yet oranges are raised for home consumption, and the cultivation of the lemon is a profitable business; but her deciduous fruits, large and small, her table and wine grapes, and her fine wines, are winning renown. From the summit of the range, more than 2,000 feet above the sea, down to the wide and fruitful valleys along the coast, grow and flourish delicious fruits. Prunes, pears, apricots, peaches, cherries, Japanese and native plums, figs, walnuts, persimmons, olives, and nectarines thrive, but the crop of the largest profit is that of apples, their quality and size being astonishing and their yield as much so. From bellflowers in September to Newtown pippins in December the supply is steady.

The extent of the apple industry is shown by these statistics, and each years finds a large increase in the crop. During the harvesting of the crop in the Pajaro Valley, this industry gives employment to 2,391 males and 698 females, drawing a daily wage of \$6,308.09 and a monthly pay roll of \$198,242.70. The average number of boxes delivered to the packing houses per day totals 57,872 and a total weight of

2,314,880 pounds. Horses used in hauling these number 3,193.

The actual shipment of apples this season was 4,000 cars, shipments being made to Europe and other parts of the world. Independent of these shipments were apples used at the dryers, vinegar factories, can-

neries, and for home consumption.

This year during the month of October there was held in the city of Watsonville an "Apple Annual" or "show" given over entirely to the apple industry. As its name implies, it is intended to make this show an annual affair:

The fish hatchery at Brookdale and at Scott's Creek Station have produced during the past year silver salmon, steelhead, and rainbow eggs amounting to 2,509,000. There were shipped to the United States Bureau of Fisheries and State Commission 68,000 steelhead eggs.

Many acres have been set out in the last few months to eucalyptus

trees, and many more are to be set out during the coming year.

Of the small fruits, the strawberry is the most widely grown and fur-

nishes a practically continuous crop.

In the southern part of the county a large acreage is devoted to the profitable growth of sugar beets, potatoes, beans and onions, and the vield is enormous. Market gardening is profitable.

A great deal of asparagus and rhubarb are grown for outside

markets.

Seeds, bulbs, plants, and cut flowers contribute largely to the supply for metropolitan markets.

Dairving is a profitable industry, and thousands of acres of grazing land support well-selected herds of stock.

Poultry raising is a profitable business, the climate and conditions

being well adapted for such industry.

Considerable capital is invested in the deep sea fisheries. The fish hatchery at Brookdale, on Clear Lake, has upward of 2,000,000 trout and salmon fry.

During the fall and winter months 5,000,000 or 6,000,000 salmon eggs will be hatched and the fry liberated in the bay. Steelhead and

rainbow trout abound in all the thirty odd streams.



The forest covered mountains are a retreat for quail and deer, and the many lagoons and the four beautiful lakes in the Pajaro Valley in fall and winter are feeding places for all varieties of wild ducks.

At Santa Cruz the tent city, pavilion, casino and baths, representing an expenditure of \$750,000, were opened two years ago, and this beautiful summer resort had practically the greatest concourse of pleasure seekers on the coast. It is estimated 100,000 people from San Francisco and interior visited our shores during the summer.

Capitola, four miles east of Santa Cruz, can be reached by both steam and electric railroad. This is another beautiful summer resort.

There are two Carnegie libraries in the county well stocked with the latest works. The public schools throughout the county are of a high standard, as are also the private schools and colleges. The many fine churches represent the leading denominations. There are many fraternal societies, and a large number of them hold meetings in fine lodge rooms in buildings of their own. There are five banks in the county—all sound banking institutions.

The supervisors have done and are doing good work in road building, and the most mountainous places can now be reached by easy grades.

Many industries have developed to the profit producing point. The Santa Cruz Portland cement plant, located 12 miles north of the city of Santa Cruz, represents an expenditure of \$5,000,000, and has the largest capacity for the manufacture of cement of any similar institution of its kind. The power works, tannery, paper mill, soap and glue factory, planing and sawmills, lime kilns and the bitumen industry, are all in active operation, and the general air of thrift and prosperity is apparent. The output of lumber has been large for a great many years, but great tracts of forest still remain. Many of the trees are of ancient growth, and it is not uncommon to see 35,000 feet of clear lumber cut from a single tree.

Santa Cruz, Watsonville, Boulder Creek, Soquel, Aptos, Ben Lomond, Brookdale, Felton, Capitola, Davenport, and Glenwood are the principal towns.

STATISTICS OF SANTA CRUZ COUNTY, 1909-10.

General Statistics.	1	Live Stock I	ndustry.	
Area 500 square miles, or 320,000	acres.		Number.	Value.
Number of farms	1,765	Cattle—Beef	1,148	\$40,180
Number of acres assessed	257,936	Stock	1,651	33,020
	\$4,856,460	Dairy Cows-Graded	4,931	197,240
	\$1,715,565	Thoroughbred-		•
	\$5,214,645	Guernsey	35	
Of improvements thereon	\$2,980,900	Holsteins	175	
	\$1,976,425	Jersey	62	• • • • • • • • • • • • • • • • • • • •
Total value of all property \$	16,743,995	Calves	2,350	21,150
Expended on roads, last fiscal	970 705	Swine	3,030	24,240
Expended for bridges, last fis-	\$76,735	Horses—Thoroughbred	15	10,000
	\$8,644	Standard-bred	143	28,600
Number of miles of public roads	458	Common	5,427	407,025
Road levy per \$100, 1910	60c	Colts	531	26,550
Value of county buildings	\$187,000	Imported Belgian draft	-	
Railroads, steam—miles, 66.34;	4101,000	stallion	187	14.025
assessed value	\$1,083,581	Sheep	1.419	5,676
Railroads, electric — miles, 19;	4 -,,	Lambs	738	1,476
assessed value	42,940	Angora goats	973	4,865
Electric power plants — 2; as-	· ·	Angora goats		
sessed value	\$63,275	Total stock	22,816	\$814,047
Electric power lines—miles, 98;			•	
assesed value		Wool (pounds)	2,840	511
Number of acres irrigated	950	Mohair (pounds)	1,100	264

STATISTICS OF SANTA CRUZ COUNTY, 1909-10-Continued.

Cereal Product Tons of 2,00			Fruits, Veg	retables, Etc. Total	
Agree	. Bushels.	Value.	-	Production.	Value.
Wheat 5	1.498	\$1.848	Green-	Pounds.	\$1,846,590
	6 17.210	10.325	Apples	211,760	4,235
Oats 2,48	5 1,498 6 17,210 4 85,795 0 30,434	\$1,348 10,325 34,442 27,390	Asparagus	9,000	540
Corn 1,08	0 30,434	27,390	Blackberries	584,650	20,462 1,785
m. + - 1			Black Mammoth	. 51,000	1,785
Total cereals 4,06	5 134,937	\$ 73,50 5	Cabbaga	79.650	4,780
Acres	. Tons.	Value.	Celery Cauliflower Corn Cherries	104,880 84,330 29,240	5,244
Alfalfa hay 27	0 1,805	\$14,355	Cauliflower	. 84,330	2,530 585
Grain hay 9,18	9 15,253	\$14,355 152,530	Charter	756 400	37,824
			Tripe	23 360	1,168
Total hay 9,40	9 16,558	\$ 166,885	Figs	5.695.650	56,956
Number of Fruit	Trees and V	lines.	Grapes Lemons (boxes) Loganberries	756,490 23,360 5,695,650	270
Bearing.			Loganberries	. 758,800	26,558
_	71 469	779 410	Pears	. 1,112,720	16,690 27,079
Apple 700,948 Apricot 72,615	71,462 10,899 3,221 170	772,410 83,014 25,541	Peaches	. 1,083,170	27,079
Apricot 72,615 Cherry 22,320	3.221	25.541	Plums	. 504,385	20,175
Fig 297	170	467	Irish potatoes Quinces	9,144,700	114,309 360
Lemon 155	206	361	Pospherwics	122 550	13,255
Orive 482	55	537	Raspberries Strawberries	1.858.790	111 597
Orange 175	166	341	Tomatoes	. 132,900	1,329
Orange 175 Peach 11,494	1,414	12,908	Dewberries	5,050	9 09
Pear 16,521	2,803	12,908 19,324 20 ,840 182,606	Tomatoes Dewberries Cucumbers (hothouse	120 758,800 1,112,720 1,083,170 504,385 9,144,700 35,825 132,550 1,858,790 132,900 5,050 0,40,000	2,000
Plum 19,395	1,445 2,210	192 606	l .		00.010.070
Prune 130,396 Quince 171	2,210	180	Totals		\$2,316,756
Other kinds 680		680	Dried—	Pounds.	Value.
			Almonds	1,080	\$140
Total fruit 975.649	93,560	1,069,209	Apples	. 3,50Z,100	210,126 47,241
Almond 184	76	260	Posps	479 544	16,539
Almond 184 Chestnut 147		237	Apricots Beans Chestnuts	2.960	325
Walnut 2,309		3,608	Onions	6.270	100
	·		Onions Peaches	Pounds. 1,080 3,502,100 787,350 472,544 2,960 6,270 2,000 1,017,090	100
Total nut 2,640	1,465	4,105	Prunes	1,017,090 49,805	40,683
Grapevines 871,450	151,350	1,022,800	Walnuts	. 49,805	6,475
Acres-	101,000	2,042,000	Totala	. 5,841,199	\$321,729
Strawberries 247		247	Totals	. 0,011,100	Value.
Raspberries 30		30	Canned	Cases. . 16,000	\$40,000
Loganberries 102		102	Apples	. 500	675
Blackberries 129	• • • • • • • • • • • • • • • • • • • •	129	Preserves (dozen)	. 500	675
Black mam- moth 12		12	l		
Dewberries		2	Totals	. 17,000	\$41,35 0
			1	and Eggs.	
Total acres. 522		522	roundy	Dosen.	Value.
			Chickons		\$38,868
Forest P	roducts.		Chickens	115	690
	Amount.	Value.	Geese		1,320
Sawmills (number)	. 4		Turkeys	200	4,800
Chama atalean	109 000	\$4,825 126,634 7,875	Eggs		215, 758
Fuel, wood (cords)	28,141	126,634			0001 400
Laths (thousand)	2,200	7,875	Total value	• • • • • • • • • • • • • • • • • • • •	\$261,436
Fuel, wood (cords) Laths (thousand) Lumber (feet) Pickets (pieces)	155 000	331,616 5 425	Wines, Br	andies, Etc.	
Piles	229	1.374	,	Gallons.	Value.
Piles	252,630	5,425 1,374 30,315	Dry wines	260,725	\$52,145 86,800
Railroad ties (pieces).	23,810	14,586	Beer (barrels)	12,400	86,800
Shakes (thousand)	1,280	21,760	Beer (barrels)	12,400 1,000 21,532	บบด
Shingles (thousand)	1,280 20,482 750	14,586 21,760 35,843 3,750	Claer	21,532	6,459 180,966
State Dorre (corres)	100	17,082	Vinegar	1,200,000	
Miscellaneous		11,004	Number of wineric tilleries, 1; number of	s, 20; numi	ber or ors-
Total value		\$594,085	dinories, 1, number o	I DIEWCITED	, 2.
	a and many	factorice	Miscellaneo	us Products.	
in county—Steam (nu (number), 14; water (1	mber). 33:	electrical		Pounds.	Value.
(number), 14; water (number), 1.		Bees (hives), numbe	r. 466	\$932
	_		Bees (hives), numbe Flowers and plants		•
Dairy In			(acres)		84,000 2,180
• •	Production.	Value.	Honey	10,900	2,180
Butter (pounds)	287,187 260,400 15,000	\$89,028 35,154 15,000	Hops	70,000	10,500 1,200
Butter (pounds) Cheese (pounds) Cream (gallons)	260,400	35,154	Garden seed	12,000 5,295	26,475
Cream (gallons) Creameries, 4; dairie	15,000	15,000	Bituminous rock		
Creameries, 4; dairie	s, 28.			40,000	120,000
Fish Inc			Pumpkins (tons) Melons (tons) Horse beans	1,067	4,801 10,365 630
risii Inc	Pounds.	Value.	Meions (tons)	691	10,365
	1 461 000		Pelts (number)	31,500 7,620	2,667
All kinds	1, 101,000	4.0,000	, a case (mammon)	1,020	2,001

STATISTICS OF SANTA CRUZ COUNTY, 1909-10-Continued.

rcto1	1¢5.		manufactories—Continued.	
No.			Number of No. Employees.	Value of Products.
			Tanneries 1 35	240,000
	14	\$12,000	Soda works 3 6	15,000
4			Powder works 1 120	900,000
_		,	Ice plant 1 5	8,000
. 3	6	6.250	Glue factory 1 2	675
	500			***
	16		35	
7	24		Manufactured Output.	
ż				Quantity.
_		00,000	Cement (tons)	285,000
. 1	2	4.000	Cigars (thousand)	442
. 5	Ř	17,200	Lime (barrels)	350,000
ž	173	437,500	Malt (tons)	95
		475	Hides (nounds)	165,90 0
• • •			Lard (pounds)	109,200
	ſ	10.920	Meat packed (pounds)	85,000
6	30 1		Tallow (harrels)	600
٠	• 1		Soan (nounds)	165.900
1	٠ و د		Powder (kegs)	600,000
· \$	71		Leather (sides)	40,000
	• •		reactici (bides)	7,500
		Number of No. Employees. 1 14 4 15 3 6 1 500 4 16 7 24 11 1 1 2 5 8 2 173	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Number of No. Employees. Products. 1

SHASTA COUNTY.

Shasta County lies at the head of the famous Sacramento Valley. One mile north of Redding, the county seat, the valley ends and the canyon, second only in fame to the valley, which bears the name of the greatest waterway in the State, begins. The area of the county covers 90 miles from east to west and 60 miles from north to south. Because of its unlimited mining, timber and water resources and the prolific nature of its soils, Shasta County offers unequaled opportunities for the

man of small means as well as the capitalist.

Covering a portion of eastern Shasta are the Sierra Nevada Mountains and on the northeastern boundary is the Coast Range. These are lofty, some peaks exceeding 5,000 feet in height, and are very rugged. On the extreme eastern border of the county is Lassen Peak, raising its mighty head 10,577 feet above sea level. This mountain is timbered two thirds of the way up. Hot and boiling springs, and others noted for their medicinal qualities, abound in this region. In the central and southern portions of the county is a semi-circular region embracing over a half million acres of the grand Sacramento Valley proper, the altitude being from 500 feet to 2,500 feet above the sea. The southwestern portion of this section is a succession of rounded hills, varying in height from 50 to 200 feet, while the central and southern portions consist of table-lands, varying in altitude from 500 to 700 feet. Fertile valleys predominate.

Shasta is noted for the number and beauty of its streams. First in importance is the Sacramento River, which enters the county on its northern boundary, traversing it throughout to its southern borders. For 40 miles the magnificent stream meanders through fertile lands, after emerging from the picturesque and rocky canyon. The Sacramento is augmented by the combined McCloud, Pitt, and Fall rivers, the former finding its source at Mount Shasta, on the extreme north, enters the county and travels in a southerly direction, emptying into the Pitt, which earlier has received the Fall River flow, and continuing, still in a southerly course, meets and enters the Sacramento at a point a few miles north of Kennett. Most beautiful of all northern streams is Fall River, meandering for 40 miles through virgin pastures and delight-Besides these main streams, there are numerous tributaries of importance entering the Sacramento on both sides, among them being Battle Creek, the seat of the largest power propositions in the northern counties, Clear Creek and Cottonwood Creek.

The soil of the valleys is an alluvium, a rich sedimentary deposit, largely intermixed with disintegrated rock, and in some parts with a gravel. The usual color is light red, or reddish brown. It is very fertile and excellent for plums, prunes, pears, figs, and small fruits. The mesa lands bordering the valleys are of a sandy loam, with a large percentage of clay, and carrying in many districts, especially in the higher parts, considerable gravel and boulders. Fruit does finely on these mesa lands. On the foothills in a red loam or clay, productive and adapted

for berries. The soil varies on the elevated plateaus of the north and northwest, from a black, sandy loam to a red loam or clay, while to the northwest the soil is generally adobe, productive of grain and rich natural grasses.

Irrigation is unnecessary for most crops, as the rainfall is sufficient. The rainy season begins in September and extends, at intervals of two or three weeks from that time, until May. During this time the ground is thoroughly saturated with moisture, and the rainy period covers the entire growing season. At the end of the wet season grains, grasses, and so forth are ready for the harvest, and fruits, grapes, etc., are begin-

ning to ripen.

Beautiful resorts and health-giving springs abound. The mountains are heavily timbered with sugar pine, cedar, fir, and other valuable timbers. There are some large valleys and extensive plateaus, mostly devoted to general farming, stock raising and wool growing. The foothills are more or less timbered with oak and pine, and their higher portions yield all kinds of minerals and stones—gold, silver, copper, iron, quicksilver, platinum, lead, marble, sandstone, limestone, coal, onyx, etc.—affording also opportunities for lovely homes, to the small farmer, fruit grower, stock raiser, poultryman, and gardener. The climate is pleasant, not extremely hot in summer nor cold in winter. The valleys are capable of producing all things that grow in temperate or semitropical regions.

Shasta orchards are a success, and produce heavy crops of the best quality. The prune, peach, pear, plum, apple, apricot, almond, fig, lemon, orange, and olive thrive, while grapes of the wine, table, and raisin varieties have proven a success in the valley districts. Wheat, grasses, and alfalfa crops are prolific. There are good markets for everything produced, and home consumption is not nearly supplied, except in fruits. Grain, hay, butter, eggs, and vegetables are shipped into Shasta trade centers by the hundred car load during the year. Homeseekers will find the land adapted to fruit raising, grain growing, poultry farming, and gardening at lower prices than in the older settled portions of the State.

Stock raising is an important trade factor. Mild winters in lower altitudes obviate the necessity of feeding, while the summer ranges in the mountains make it possible for the stockraiser to keep his herds upon

green feed, the greater portion of the year.

The sawmilling industry annually distributes hundreds of thousands of dollars for pay rolls and supplies. The Terry Lumber Company, which operates its mills in the Bella Vista and Anderson regions, makes its central shipping point on the main line at Anderson, its planing mills, yards, and dry houses being connected to the latter town by its own railroad. T. H. Benton also has immense timber reserves at Wengler, in the Big Bend of the Pitt, from where he ships six million feet of logs annually, to his mills and yards at Redding, using the Sacramento River as an economical carrier. There are other large mills in the Shingletown country, where traction engines do the freighting.

At Fall River and Cottonwood there are flour mills and creameries, and a large area of land in Anderson and Balls Ferry, is being prepared for a large number of families who are immigrating from Montana and other states for the purpose of farming ten and twenty acre tracts.

Throughout the Sacramento canyon are dotted numerous resorts, to which come tourists of all climes. They are easy of access, being for the most part on the main line of the Southern Pacific.

Redding, the county seat, is one of the most beautifully located cities on the Pacific Slope, commanding a superb view of both the Sierra and Coast ranges, and an equally peerless view of the Sacramento River, valley, and canyon—east, south, and north.

Anderson, twelve miles south of Redding, the fruit and lumber center of the county, and Kennett, seventeen miles to the north of the county seat, are the two next most important centers, but Coram, where the largest copper smelter in the State is located, and Delmar, the site of a

big copper plant, are almost equally important.

Shasta's preëminence in mineral production, giving her the title of "banner county," is largely due to her immense copper output, but in other metals, especially gold and iron, her past records are quickly being beaten through active developments in her gold and iron mines. With the necessity for silicious ores for a flux, in the production of copper, immense activity is being shown in the gold territory west of Redding, and much capital is being interested in this direction as well as in the Old Diggings section.

Statistics showing the productions of the county are included herein, the figures being compiled from reports of the last preceding twelve

months.

Copper production in the county has shown enormous strides since 1896, the year of the installation of the pioneer copper smelter in the county. In 1908, with only two smelters running, fairly full handed, the cutput of the red metal was 30,000,000 pounds; in 1909 it reached the total of 40,000,000 pounds, and in the current year, with the enforced reduction in output, owing to new installations and the low price of copper, the general average will be maintained, and by the end of 1911, with five plants in operation, an output will be attained of 100,000,000 pounds of copper. The gold output for 1909 exceeded \$2,000,000.

In agriculture and horticulture Shasta County has great possibilities for extension, and large landowners are making experiments and tests with a view to obtaining the best returns on their investment. A great increase has been noticeable during the past twelve months in the product from truck gardens, and especially is this so with regard to tomatoes and cabbage, potatoes, cucumbers, cantaloupes, and watermelons. Berries show an increased acreage and larger output, while many orchardists are putting in acreages of cherries, olives, and apples—the latter principally in the famed Manton country, on the Shasta County side of Battle Creek. A new industry in the county is that of nurseries, and one enterprising florist has established himself in a substantial way in Redding. Two new butter factories in the eastern part of the county are thriving, and poultrymen are giving attention to this section.

Irrigation is receiving active attention, as most valuable lands lie within easy access to the numerous streams and watercourses that line

the fertile valleys.

As an indication of the prosperity of the county it is noticeable that the tax rate has been reduced from \$2.10 in 1909 to \$1.87½ in 1910, with every prospect of a still further decrease to about \$1.65 the next fiscal year.

STATISTICS OF SHASTA COUNTY, 1909-10.

General Statistics.	Fruits, Vegetables, Etc.
Area 4,050 square miles, or 2,590,000 acre	Total .
Number of farms	A Green— Pounds.
Value of country real estate \$7,631,3	g Apples 150,000
Of improvements thereon \$2,405,2	5 Approximately 1000
Of city and town lots \$681,4 Of improvements thereon \$1,250,7	0 Asparagus 9,000 5 Blackberries 35,000
Of personal property \$1,459,2	0 Cabbage 75,000
Total value of all property \$13,560,4	5 Cherries 10,000
Expended on roads, last fiscal	Grapes
year	Nectarines 5.000
cal vear \$57.7	1 Onions 25,000
Number of miles of public roads 1,0 Road levy per \$100, 1910 4	0 Olives 111,000 Pears 950,000
Value of county buildings \$175,0	
Irrigating ditches — miles, 200;	Plums 100,000
cost	0 Irish potatoes 250,000
assessed value \$2,634,5	Sweet potatoes
Railroads, electric—assessed	Quinces 40,000
value	0 Raspberries 8.000
plants); assessed value \$370,6	Strawberries
Electric power lines—miles, 423;	Hops 4,000
_assessed_value \$150,4	0
Number of acres irrigated 3,5 Toll roads (38 miles) 13,6	^
	Dried—Almonds Pounds 22,000
Cereal Products and Hay.	Apples
Tons of 2,000 pounds.	Apricots 6,000
Acres. Tons. Value	Beans 50,000 Figs 35,000
Wheat 3,500 2,000 \$70,0 Barley 10,000 7,000 245,0	
Oats 1,350 750 23,2	0 Pears 100,000
Corn 100 50 2,0	0 Peaches 200,000
Total cereals 14,950 9,800 \$340,2	Prunes 300,000
Alfalfa hay 9,000 \$108,0	I Total 750 AAA
Grain hay 4,000 48,0	V
Grass hay 9,000 54,0	Number. Value.
Total hav 99 000 2010 0	Cattle—Beef 3,200 \$80,000
Total hay 22,000 \$210,0	U Stock 10,000 150,000
Number of Fruit Trees and Vines.	Dairy Cows—Graded 500 20,000
Mainber of Fruit lies and Vines.	
Bearing. Non-bearing. Total.	Thoroughbred— Herefords 100 6,000
Bearing. Non-bearing. Total. Apple 19,000 6,000 25,0	Thoroughbred— Herefords
Bearing. Non-bearing. Total Apple	Thoroughbred— Herefords . 100 6,000 0 Holsteins . 25 3,135 0 Jersey . 400 20,000
Apple Bearing. Non-bearing. Total. Apricot 19,000 6,000 25,0 Apricot 700 7 Cherry 1,000 500 1,5	Thoroughbred— Herefords . 100 6,000 0 Holsteins . 25 3,135 0 Jersey . 400 20,000 0 Shorthorns . 100 6,000 0 Calves . 3,000 30,000
Apple 19,000 6,000 25,0 Apricot 700 500 1,5 Cherry 1,000 500 1,5 Fig 1,000 200 1,2 Lemon 600 600 600	Thoroughbred— Herefords 100 6,000 0 Holsteins 25 3,135 0 Jersey 400 20,000 0 Shorthorns 100 6,000 0 Calves 3,000 30,000 0 Swine 2,000 8,000
Apple 19,000 6,000 25,0 Apricot 700 7 Cherry 1,000 500 1,5 Fig 1,000 200 1,2 Lemon 600 6 Nectarine 100 6	Thoroughbred— Herefords . 100 6,000 0 Holsteins . 25 3,135 0 Jersey . 400 20,000 0 Shorthorns . 100 6,000 0 Calves . 3,000 30,000 0 Swine 2,000 8,000 0 Horses—Thoroughbred 2 4,000
Apple Bearing. Non-bearing. Total. Apple 19,000 6,000 25,0 Apricot 700 7 Cherry 1,000 500 1,5 Fig 1,000 200 1,2 Lemon 600 6 Nectarine 100 1 Olive 9,000 2,000 11,0	Thoroughbred— Herefords 100 6,000 0 Holsteins 25 3,135 0 Jersey 400 20,000 0 Shorthorns 100 6,000 0 Calves 3,000 30,000 0 Swine 2,000 8,000 0 Horses—Thoroughbred 2 4,000 0 Standard-bred 7 7,000 0 Common 2,000 100,000
Apple Bearing. Non-bearing. Total. Apricot 19,000 6,000 25,0 Apricot 700	Thoroughbred— Herefords . 100 6,000 0 Holsteins . 25 3,135 0 Jersey . 400 20,000 0 Shorthorns . 100 6,000 0 Calves . 3,000 30,000 0 Wine
Apple 19,000 6,000 25,0 Apricot 700 15,000 500 1,5 Fig 1,000 600 200 1,2 Lemon 600 Clive 9,000 2,000 11,0 Orange 9,000 750 1,6 Peach 46,000 3,000 49,0 Pear 25,000 15,000 2,000 1,00	Thoroughbred— Herefords . 100 6,000 0 Holsteins . 25 3,135 0 Jersey . 400 20,000 0 Shorthorns . 100 6,000 0 Calves . 3,000 30,000 0 Swine . 2,000 8,000 0 Horses—Thoroughbred 2 4,000 0 Standard-bred . 7 7,000 0 Common . 2,000 100,000 0 Colts . 500 10,000 0 Jacks and jennies . 75
Apple Bearing. Non-bearing. Total. Apricot 700 6,000 25,0 Cherry 1,000 500 1,5 Fig 1,000 200 1,2 Lemon 600 60 6 Nectarine 100 1.0 1 Olive 9,000 2,000 11,6 Orange 900 750 1,6 Peach 46,000 3,000 49,0 Pear 25,00 25,0 15,0 Plum 1,500 15	Thoroughbred— Herefords 100 6,000
Apple 19,000 6,000 25,0 Apricot 700 500 1,5 Fig 1,000 200 1,2 Lemon 600 College 9,000 2,000 11,0 Orange 900 750 1,6 Peach 46,000 3,000 49,0 Plum 1,500 Prune 80,000 4,000 84,0 Quince 150	Thoroughbred— Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Shorthorns 100 6,000 Calves 3,000 30,000 Whine 2,000 8,000 Horses—Thoroughbred 2 4,000 Standard-bred 7 7,000 Common 2,000 100,000 Cotts 500 10,000 Jacks and jennies 75 525 Mules 100 7,000 Sheep 15,000 45,000 Lambs 12,000 12,000
Apple Bearing. Non-bearing. Total. Apple 19,000 6,000 25,0 Apricot 700 500 1,5 Cherry 1,000 500 1,5 Fig 1,000 200 1,2 Lemon 600 600 600 Nectarine 100 2,000 11,0 Olive 9,000 2,000 11,6 Orange 900 750 1,6 Peach 46,000 3,000 49,0 Pear 25,000 25,00 Plum 1,500 1,5 Prune 80,000 4,000 84,00	Thoroughbred— Herefords
Apple Bearing. Non-bearing. Total. Apple 19,000 6,000 25,0 Apricot 700 500 1,5 Cherry 1,000 500 1,5 Fig 1,000 200 1,2 Lemon 600 600 600 Nectarine 100 100 100 Olive 9,000 2,000 11,0 Orange 900 750 1,6 Peach 46,000 3,000 49,0 Pear 25,000 25,0 Plum 1,500 1,5 Prune 80,000 4,000 84,0 Quince 150 10,0 Other kinds 10,000 10,0	Thoroughbred— Herefords 100 6,000 Tholsteins 25 3,135 Jersey 400 20,000 Shorthorns 100 6,000 Calves 3,000 30,000 Swine 2,000 8,000 Horses—Thoroughbred 2 4,000 Standard-bred 7 7,000 Common 2,000 100,000 Colts 500 10,000 Jacks and Jennies 75 525 Mules 100 7,000 Mules 12,000 45,000 Lambs 12,000 12,000 Lambs 12,000 20,000 Angora goats 400 2,000 Common goats 10,000 20,000
Apple 19,000 6,000 25,0 Apricot 700 500 1,5 Fig 1,000 800 200 1,5 Fig 1,000 800 800 800 800 800 800 800 800 800	Thoroughbred— Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Calves 3,000 30,000 Swine 2,000 100,000 Standard-bred 7 7,000 Common 2,000 100,000 Colts 500 10,000 Jacks and jennies 75 525 Mules 100 7,000 Sheep 15,000 45,000 Lambs 12,000 12,000 Angora goats 400 2,000 Cattle (yearlings) 2,000 20,000
Apple 19,000 6,000 25,0 Apricot 700 5,00 1,5 Fig 1,000 800 200 1,2 Lemon 600 800 25,0 Apricot 900 1,00	Thoroughbred— Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Calves 3,000 30,000 Swine 2,000 100,000 Standard-bred 7 7,000 Common 2,000 100,000 Colts 500 10,000 Jacks and jennies 75 525 Mules 100 7,000 Mules 12,000 7,000 Common 2,000 10,000 Cotts 500 10,000 Cotts 100 7,000 Angora goats 12,000 12,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 2,000 20,000 Total stock 61,409 \$550,660
Apple 19,000 6,000 25,0 Apricot 700 6.000 25,0 Cherry 1,000 500 1,5 Fig 1,000 600 200 1,2 Lemon 600 600 200 1,2 Lemon 600 600 200 1,2 Lemon 600 600 600 600 600 600 600 600 600 60	Thoroughbred— Herefords 100 6,000 Holsteins 25 3,135 0 Jersey 400 20,000 Calves 3,000 30,000 0 Shorthorns 100 6,000 Swine 2,000 8,000 Horses—Thoroughbred 2 4,000 Standard-bred 7 7,000 Common 2,000 100,000 Colts 500 100,000 Jacks and jennies 75 525 Mules 100 7,000 Sheep 15,000 45,000 Cattle (yearlings) 12,000 20,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 2,000 20,000 Total stock 61,409 \$550,660
Apple 19,000 6,000 25,0 Apricot 700 500 1,5 Fig 1,000 800 200 1,2 Lemon 600 800 25,0 Apricot 9,000 200 1,2 Lemon 600 800 10,0 10,0 10,0 10,0 10,0 10,0 10,	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Shorthorns 100 6,000 Calves 3,000 30,000 Whore 2,000 8,000 Horses—Thoroughbred 2 4,000 Standard-bred 7 7,000 Common 2,000 100,000 Colts 500 100,000 Jacks and jennies 75 525 Mules 100 7,000 Sheep 15,000 45,000 Lambs 12,000 45,000 Angora goats 400 2,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 2,000 20,000 Total stock 61,409 \$550,660 Wool (pounds) 115,000 Mohair (pounds) 10,000
Apple 19,000 6,000 25,0 Apricot 700 500 1,5 Fig 1,000 800 200 1,2 Lemon 600 800 25,0 Apricot 900 1,000	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Calves 3,000 30,000 Swine 2,000 100,000 Standard-bred 7 7,000 Common 2,000 100,000 Cotts 500 10,000 Jacks and jennies 75 525 Mules 100 7,000 Sheep 15,000 45,000 Lambs 12,000 12,000 Angora goats 400 2,000 Cattle (yearlings) 2,000 20,000 Total stock 61,409 \$550,660 Wool (pounds) 115,000 Mohair (pounds) 10,000 Poultry and Eggs.
Apple 19,000 6,000 25,0 Apricot 700 500 1,5 Fig 1,000 800 200 1,2 Lemon 600 800 25,0 Apricot 9,000 200 1,2 Lemon 600 800 10,0 10,0 10,0 10,0 10,0 10,0 10,	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Calves 3,000 30,000 Swine 2,000 8,000 Horses—Thoroughbred 2 4,000 Standard-bred 7 7,000 Common 2,000 100,000 Common 2,000 100,000 Jacks and jennies 75 525 Mules 100 7,000 Mules 12,000 45,000 Lambs 12,000 12,000 Common 2,000 10,000 Common 3,000 10,000 20,000 Common 6,000 115,000 20,000 Cattle (yearlings) 2,000 20,000 Total stock 61,409 \$550,660 Wool (pounds) 115,000 Mohair (pounds) 115,000 Mohair (pounds) 10,000 Poultry and Eggs. Chickens Value.
Apple 19,000 6,000 25,0 Apricot 700 6,000 25,0 Apricot 700 500 1,5 Fig 1,000 200 1,2 Lemon 600 600 600 600 600 600 600 600 600 60	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Calves 3,000 30,000 Swine 2,000 100,000 Standard-bred 7 7,000 Common 2,000 100,000 Colts 500 10,000 Jacks and jennies 75 525 Mules 100 7,000 Mules 100 7,000 Cattle (yearlings) 2,000 10,000 Cattle (yearlings) 2,000 20,000 Total stock 61,409 Wool (pounds) 115,000 Mohair (pounds) 10,000 Poultry and Eggs. Chickens 700 Cosen 100 800 Common Cosen Value \$3,500 Chickens 700 Seps.
Apple 19,000 6,000 25,0 Apricot 700 1,5 Fig 1,000 600 200 1,5 Fig 1,000 600 200 1,2 Lemon 600 1,5 Fig 1,000 200 1,2 Lemon 600 1,5 Fig 1,000 200 1,2 Lemon 600 1,5 Fig 1,000 2,000 11,0 Cive 9,000 2,000 11,0 Cive 9,000 750 1,6 Peach 46,000 3,000 49,0 Pear 25,000 25,00 Pium 1,500 25,0 Pium 1,500 25,0 Pium 80,000 4,000 84,0 Cive 1,5 Total fruit 194,950 16,450 211,4 Almond 4,000 1,0 Chestnut 100 1,1 Walnut 350 100 4,0 Cive 1,1 Cive 1,	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Shorthorns 100 6,000 Calves 3,000 30,000 Whorses—Thoroughbred 2 4,000 Standard-bred 7 7,000 Common 2,000 100,000 Colts 500 100,000 Colts 500 100,000 Jacks and jennies 75 525 Mules 100 7,000 Sheep 15,000 45,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 115,000 Mohair (pounds) 115,000 Mohair (pounds) 10,000 Poultry and Eggs. Chickens 700 33,500 Ducks 100 800 Geese 50 500
Apple 19,000 6,000 25,0 Apricot 700 6,000 25,0 Cherry 1,000 500 1,5 Fig 1,000 6000 200 1,2 Lemon 600 600 600 600 600 600 600 600 600 60	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Shorthorns 100 6,000 Calves 3,000 30,000 Swine 2,000 8,000 Horses—Thoroughbred 2 4,000 Standard-bred 7 7,000 Common 2,000 100,000 Colts 500 100,000 Jacks and jennies 75 525 Mules 100 7,000 Sheep 15,000 45,000 Lambs 12,000 12,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 2,000 20,000 Total stock 61,409 \$550,660 Wool (pounds) 115,000 Mohair (pounds) 10,000 Poultry and Eggs. Chickens 700 83,500 Ducks 100 800 Geese 50 500 Turkeys 650 19,500
Apple 19,000 6,000 25,0 Apricot 700 6,000 500 1,5 Fig 1,000 600 800 1,2 Lemon 1,000 1,2 Reach 1,000 1,	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Calves 3,000 30,000 Swine 2,000 8,000 Horses—Thoroughbred 2 4,000 Common 2,000 100,000 Common 2,000 100,000 Jacks and jennies 75 525 Mules 100 7,000 Mules 100 7,000 Mules 12,000 45,000 Lambs 12,000 45,000 Lambs 12,000 12,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 2,000 20,000 Total stock 61,409 \$550,660 Wool (pounds) 115,000 Mohair (pounds) 10,000 Chickens 700 \$3,500 Ducks 100 800 Chickens 700 \$3,500 Ducks 100 800 Chickens 700 \$3,500 Ducks 650 19,500 Eggs 6,000 1,500
Apple 19,000 6,000 25,0 Apricot 700 6,000 25,0 Cherry 1,000 500 1,5 Fig 1,000 6000 200 1,2 Lemon 600 600 600 600 600 600 600 600 600 60	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Calves 3,000 30,000 Swine 2,000 100,000 Standard-bred 7 7,000 Common 2,000 100,000 Cots 500 10,000 Jacks and jennies 75 525 Mules 100 7,000 Mules 100 7,000 Sheep 15,000 45,000 Lambs 12,000 12,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 2,000 20,000 Total stock 61,409 \$550,660 Wool (pounds) 115,000 Wool (pounds) 15,000 Mohair (pounds) 10,000 Chickens 700 \$3,500 Ducks 100 800 Geese 50 50 500 Turkeys 650 19,500 Eggs 6,000 1,500
Apple	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Calves 3,000 30,000 Swine 2,000 100,000 Standard-bred 7 7,000 Common 2,000 100,000 Colts 500 10,000 Jacks and jennies 75 525 Mules 100 7,000 Mules 100 7,000 Lambs 12,000 12,000 10,000 Common 2,000 10,000 Cotte 500 10,000 Cotte 600 10,000 Cotte 600 10,000 10,000 Cotte 600 10,000 10,000 Cotte 600 10,000 10,000 Cotte 600 10,000 10,000 10,000 Cotte 600 10,000 10,000 10,000 Cotte 600 10,00
Apple	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Shorthorns 100 6,000 Calves 3,000 30,000 Whorses—Thoroughbred 2 4,000 Standard-bred 7 7,000 Colts 500 10,000 Colts 500 10,000 Jacks and jennies 75 525 Mules 100 7,000 Sheep 15,000 45,000 Lambs 12,000 12,000 Cammon goats 10,000 20,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 115,000 Mohair (pounds) 115,000 Mohair (pounds) 115,000 Mohair (pounds) 10,000 Poultry and Eggs. Chickens 700 8300 Ducks 100 800 Geese 50 500 Turkeys 650 19,500 Turkeys 650 19,500 Total value \$25,800 Manufactured Output.
Apple 19,000 6,000 25,0 Apricot 700 6,000 25,0 Apricot 700 500 1,5 Fig 1,000 600 200 1,2 Lemon 600 600 600 600 600 600 600 600 600 60	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Shorthorns 100 6,000 Calves 3,000 30,000 Whorses—Thoroughbred 2 4,000 Standard-bred 7 7,000 Colts 500 10,000 Colts 500 10,000 Jacks and jennies 75 525 Mules 100 7,000 Sheep 15,000 45,000 Lambs 12,000 12,000 Cammon goats 10,000 20,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 115,000 Mohair (pounds) 115,000 Mohair (pounds) 115,000 Mohair (pounds) 10,000 Poultry and Eggs. Chickens 700 8300 Ducks 100 800 Geese 50 500 Turkeys 650 19,500 Turkeys 650 19,500 Total value \$25,800 Manufactured Output.
Apple 19,000 6,000 25,0 Apricot 700 6,000 25,0 Cherry 1,000 500 1,5 Fig 1,000 200 1,2 Lemon 600 Nectarine 100 0 Olive 9,000 2,000 11,0 Orange 900 750 1,6 Peach 46,000 3,000 49,0 Pear 25,000 Prume 80,000 4,000 84,0 Quince 150 1,5 Other kinds 10,000 10,0 Total fruit 194,950 16,450 211,4 Almond 4,000 Walnut 350 100 4,5 Grapevines 2,000 Berries, acres 300 Wines, Brandies, Etc. Gallons Value eries, 1. Fish Industry. Pounds Value Salmon 50,000 \$5,0	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Calves 3,000 30,000 Shorthorns 100 6,000 Swine 2,000 8,000 Horses—Thoroughbred 2 4,000 Standard-bred 7 7,000 Common 2,000 100,000 Colts 500 10,000 Jacks and jennies 75 525 Mules 100 7,000 Sheep 15,000 45,000 Lambs 12,000 12,000 Angora goats 400 2,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 2,000 20,000 Total stock 61,409 \$550,660 Wool (pounds) 115,000 Wool (pounds) 115,000 Total stock 61,409 \$550,660 Turkeys 650 500 Turkeys 650 1500
Apple 19,000 6,000 25,0 Apricot 700 6,000 25,0 Cherry 1,000 500 1,5 Fig 1,000 200 1,2 Lemon 600 Nectarine 100 0 Olive 9,000 2,000 11,0 Orange 900 750 1,6 Peach 46,000 3,000 49,0 Pear 25,000 Prume 80,000 4,000 84,0 Quince 150 1,5 Other kinds 10,000 10,0 Total fruit 194,950 16,450 211,4 Almond 4,000 Walnut 350 100 4,5 Grapevines 2,000 Berries, acres 300 Wines, Brandies, Etc. Gallons Value eries, 1. Fish Industry. Pounds Value Salmon 50,000 \$5,0	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Calves 3,000 30,000 Shorthorns 100 6,000 Swine 2,000 8,000 Horses—Thoroughbred 2 4,000 Standard-bred 7 7,000 Common 2,000 100,000 Colts 500 10,000 Jacks and jennies 75 525 Mules 100 7,000 Sheep 15,000 45,000 Lambs 12,000 12,000 Angora goats 400 2,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 2,000 20,000 Total stock 61,409 \$550,660 Wool (pounds) 115,000 Wool (pounds) 115,000 Total stock 61,409 \$550,660 Turkeys 650 500 Turkeys 650 1500
Apple 19,000 6,000 25,0 Apricot 700 6,000 25,0 Cherry 1,000 500 1,5 Fig 1,000 200 1,2 Lemon 600 Nectarine 100 0 Olive 9,000 2,000 11,0 Orange 900 750 1,6 Peach 46,000 3,000 49,0 Pear 25,000 Prume 80,000 4,000 84,0 Quince 150 1,5 Other kinds 10,000 10,0 Total fruit 194,950 16,450 211,4 Almond 4,000 Walnut 350 100 4,5 Grapevines 2,000 Berries, acres 300 Wines, Brandies, Etc. Gallons Value eries, 1. Fish Industry. Pounds Value Salmon 50,000 \$5,0	Thoroughbred—Herefords 100 6,000 Holsteins 25 3,135 Jersey 400 20,000 Calves 3,000 30,000 Swine 2,000 8,000 Horses—Thoroughbred 2 4,000 Standard-bred 7 7,000 Common 2,000 100,000 Common 2,000 100,000 Jacks and Jennies 75 525 Mules 100 7,000 Mules 100 7,000 Sheep 15,000 45,000 Lambs 12,000 12,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 2,000 20,000 Cattle (yearlings) 115,000 Wool (pounds) 115,000 Mohair (pounds) 10,000 Poultry and Eggs. Chickens 700 \$3,500 Ducks 100 860 10,000 Cattle (yearlings) 2,000 20,000 Turkeys 660 19,500 Geese 50 50 Turkeys 660 19,500 Turkeys 660 19,500 Total value \$25,800 Manufactured Output. Brick (thousand) 200 Cigars (thousand) 3,500 Flour (barrels) 3,500

STATISTICS OF SHASTA COUNTY, 1909-10-Continued.

Forest Products.	Manufactories.				
Area of timber lands	Value.		No.	Number of Employees.	Value of Products.
(acres) 350,000		Brick	3	50	\$4 5,000
Sawmills (number) 7	• • • • • • • • • • • • • • • • • • • •	Cigars	3	6	10,000
Charcoal (sacks) 25.000	• • • • • • • • • • • • • • • • • • • •	Confectionery	3	4	3,500
	• • • • • • • • • • •	Flouring mills		5	35,000
Fuel, wood (cords) 10,000	• • • • • • • • •	roundites and non			
Laths (thousand) 90	*********	works	2	45	125,000
Lumber (feet)30,000,000	\$450,000	Lime	2	75	25,000
Posts (pieces) 4,000		Meat products—			-
Shakes (thousand) 1,000	8,000	Hides			25,000
•		Lard			7,500
Total value	\$458,000	Tallow			5,000
		Pickles			4,500
Power used for mills and man	nufactories	Pickled olives			1,500
in county-Steam (number), 9;	electrical			10	10,000
(number), 1.		Marble		2	5,000

SIERRA COUNTY.

Sierra County has an area practically all mountainous. The altitude ranges from 2.000 to 8.600 feet, the highest elevation being that of the Sierra Buttes; but the greater portion has an elevation of from 4,000 to 5.000 feet.

The main ridge of the Sierra Nevadas crosses the eastern part from south to north. Several spurs traverse the county from east to west. forming the watersheds of the four principal streams which make the drainage system of the western part. These streams consist of the Middle Yuba River on the south, the North Yuba near the center, and Canyon Creek and Slate Creek on the north; and in the eastern end the many streams that form the headwaters of the Feather and Truckee rivers. Of the peculiar topographical features are the expansive valleys and lakes lying among the loftiest peaks of the Sierra. The lakes vary from one eighth of a mile to three or four miles in length, most of them circular, and, considering their small size, remarkable for their depth.

The important body of agricultural land is Sierra Valley. It extends over the boundary line into Plumas County, and is the largest and the most elevated of the valleys of the Sierra, being 4,750 feet above sea level. It is 30 miles in length and 10 in width. This valley is particularly adapted to stock raising and dairy purposes, and a fine quality of timothy and alfalfa hay is raised. There are several creameries in the valley, and a superior quality of butter is made, of which almost all is shipped to the outside. Considerable beef cattle are fattened for San Francisco and other markets, besides large shipments of sheep. soil is a deep, black loam, largely admixed with rich vegetable mold, the result of ages of forest growth.

Since 1849 the principal industry has been gold mining. One hundred and ninety millions of dollars have been taken from its rivers,

gravel deposits and quartz veins.

The greater portion is practically covered with a virgin belt of soft The lumber cut runs into many millions of feet. The Floriston Paper Mill Company owns timber lands, and uses a large amount of Sierra County lumber.

Average temperature winter 47 degrees, summer 72 degrees, summer nights are pleasantly cool. Annual rainfall, about 60 inches.

Character of agricultural soil: black loam, very rich.

The principal towns are: Downieville, Forest City, Sierraville, Loyalton. Sierra City.

Natural products: white, yellow, and sugar pine, fir, spruce, and cedar, live stock, fruit, berries, and garden truck.

Manufactured products: lumber, boxes, sashes, doors, etc., creamery butter.

Minerals: gold, iron, copper, asbestos, and lime. Irrigation and power facilities are unlimited.

Transportation facilities: The Boca and Loyalton Railroad, Central Pacific Railway, Western Pacific Railroad, Nevada-California-Oregon 12-AS

Railway, and Hobart-Mills Railroad. Communication facilities: Sunset Telephone Company, Western Union Telegraph Company, and Sierra Valley Telegraph Company.

Educational facilities: first-class common grammar schools.

Health resorts: Campbell's Hot Springs, Webber, Independence, and Gold Lakes.

Hunting and fishing: trout, mountain quail, grouse, duck, snipe, deer, and bear.

STATISTICS OF SIERRA COUNTY, 1909-10.

•	5.	IAIISIIC	S OF SIE	MAR COUNTY, 1909-10.		
Ge	neral S	Statistics.		Wines, Bran	dies Ft.	
Area 957.4 squar	re mile	s. or 612.7	36 acres.	Trans, Dian		
Number of farm Number of acre Value of country Of improvement Of city and town	8	.,	110	Beer (barrels)	Gallons.	Value.
Number of acre	s asses	sed	351.526	Number of brome	206	\$2,700
Value of country	real e	estate	\$1,308,480 \$262,228) I camber of breweries	, 1.	
Of improvement	s there	on	\$262,225	Dairy In	dustry.	
Of city and town	lots .		\$63,406 \$275,925 \$267,260		Production.	Value.
			\$275,925	Butter (pounds)	320.000	
UI Dersonal bror	APTV		\$267.260	= mile (pounds) ,		\$100,000
Total value of al Expended on ro	l prope	erty	\$2,177,665	Live Stock	Industry.	
Expended on ro	ads, la	ast fiscal	4,-3-5,-6,-	1	Number.	Value.
vear			\$7,874	Cattle—Beef	3,390	
Expended for b	ridges,	last fis-		Stock	4,094	\$152,000 102,350
cal year			\$12,146	Dairy Cows-Graded	1,980	00,000
cal year Number of miles	of pub	lic roads		Thoroughbrod	1,560	90,000
about)			300	Herefords	75	4,500
Road levy per \$1 Value of county	00, 191	0	50c	Shorthorns	75	4,500
Value of county	buildir	ngs	\$14,000	Calves	1,750	14,000
Railroads, stean	n—mile	s 29 48 ·		Swine	840	5.040
assessed value			\$250,282	Horses-	010	3,040
Electric power t	nants -	4: a.s-		Standard-bred	5	2,500
sessed value			\$ 5,750	Common	1,114	89,120
Electric power ii	nesm	illes.		Colts	155	4,650
13½; assessed	value		\$2,000	Mules	62	4,960
C1 T				Sheep Lambs	2,800	9,800
		and Hay.	•	Lambs	1,410	4 220
Tons	of 2,000	pounds.		Angora goats	-, -, 7ŏ	4,230 210
	Acres.	Bushels.	Value.			210
Wheat	345	4.182	\$5,018	Total stock	17,920	\$487,860
Barley	556	2,383	2,402	Wool (pounds)	21.000	
Oats	502	9,339	11,196	Mohair (pounds)	21,000 80	3,360
Rye	101	765	774	1		12
				Poultry and	Eggs.	
Total cereals	1.504	16,669	\$19,390	1	Dozen.	Value.
		•		Chickens	1,200	\$6,000·
A 10-10- 1	Acres.	Tons.	Value.	Ducks	1,200	
Alfalfa hay	1,024	1,529 720	\$15,290 5,760	Geese	10	70
Grain hay Grass hay	815	720	5,760	Turkeys	10	15 150
Grass nay	15,296	15,564	124,512	Eggs	12,000	3,600
Total harr		-	#1.4F F.00		12,000	3,000
Total hay	• • • • • • •	• • • • • • • •	\$145,5 62	Total value		\$9,835
Number of F	······· T	and 1	7inas	•		40,000
				Forest Pro		
	earing.	Non-bearing			Amount.	Value.
Apple	6,193	280	6,473	Area of timber lands		
Cherry	242	40	282	(acres)	212,000	\$ 650,00 0
Peach	356	35	391	Pine (acres)	212,000	
Pear Plum	441	16	457	Sawmills (number)	16	160,000
Plum	441	16	457	Fuel, wood (cords)	23,000	47,500
Total founds	7 070	0.00	0.000	Laths (thousand) Lumber (feet)50	1,500	2,250
Total fruit	7,673	387	8,060	Posts (rices)b(),100,000	720,000
Chestnut	38	10	48	Posts (pieces)	5,000	400
Walnut	45	īŏ	55	Shingles (thousand)	112,000	44,500
				Shingles (thousand)	1,250	3.125
Total nut	83	20	103	Total value	-	e1 con 7-5
				Demonstrate	• • • • • • • •	\$1,627,775
Fruits,	Vegetal	oles, Etc.		Power used for mills	and mani	ifactories
	_	Total		in county—Steam (number), 5.	mber), 1	1; water
_		roduction.				
Green—		Pounds.	Value.	Miscellaneous]		
Apples	• • • • •	370,000	\$7,400		Pounds.	Value.
Cabbage	• • • • •	18,000 9,350	450	Honey	2,000	\$20 0
Cherries		9,350	460			4-00
Onions	• • • • •	8,000	200	Manufactor	ries.	
Pears	• • • • •	11,000	330	To and man Justice		Value.
Peaches	• • • • •	3,000	180	Meat products—		
Plums	• • • • •	3,600 16,000 226,000	320	Hides (number)	1,255	6,275
Irish potatoes	• • • • •	440,000	5,650	Lard (pounds)	3,700	555
Strawberries	• • • • •	6,000	400			424
Totale	-	667,950	\$15.200	There are three planing	g mills, e	mploying
Totals	• • • • •	007,890	φ10,390	100 men, output valued a	LT \$200,000).

SISKIYOU COUNTY.

Siskiyou is one of the northern counties of the State, adjoining Oregon for 80 miles on the north. Of its area of 6,048 square miles, 1,500 square miles is valley; the remainder is mountains and forest. the mountains are many farms and stock ranches, well watered and It contains large areas of farming, mining, desert, swamp, ber lands. Much of the agricultural land is farmed without and timber lands. irrigation, producing good crops of wheat, oats, barley, rye, and in some localities alfalfa and timothy. The so-called desert lands were long considered of little value save for pasturage, but are now being successfully farmed and require only the application of water to produce abundant crops. The swamp lands when drained are exceedingly The Federal Government is at present engaged in a comprehensive plan of drainage and reclamation in the northeastern portion of this county, and southern Oregon, which contemplates the drainage of the swamp lands and the use of the water in the irrigation of the This will make homes for thousands of settlers.

The mining section comprises the west half of the county, and produces nearly one million in gold annually. A system of immense ledges of copper ores have recently been discovered, which, when more fully developed, will add much to the mineral output. There are large deposits of iron ore, lime stone, granite, and marble of the finest quality, and sandstone, that owing to the absence of lime is regarded as the best on the coast. The only jade mine in California is in the west-

ern portion of this county,

The agricultural lands are chiefly comprised in Scott Valley in the western portion of the county, Shasta Valley and Little Shasta in the central portion, and McCloud and Butte valleys in the eastern portion. At the different elevations all fruit and vegetables common to the temperate zone thrive.

Timber is everywhere; there are thousands of sections that will cut from ten to twenty million feet of yellow and sugar pine, besides large

quantities of red fir and cedar.

The Sierra Nevada and Coast Range mountains meet here. The altitude ranges from 2,000 feet in the valleys to 14,000 feet on the mountain peaks, the highest of these being Mount Shasta. There are localities where snow seldom falls, and regions of perpetual snow; these conditions make it one of the most scenic of the counties.

Many of the swift mountain streams and waterfalls have been harnessed for electrical power. Chief among these is the Siskiyou Electric Power and Light Company's plant at Fall Creek, which is the third largest in the State, and furnishes cheap and abundant power to all parts of the county. Electrical power sufficient to run the machinery of the entire State can be developed from the abundant water power.

The principal river is the Klamath, which with its tributaries drain almost the entire county. This stream is not navigable, and furnishes



a natural dumping ground for the placer mines, its swift current carry-

ing the tailings out to the ocean.

The Southern Pacific Railroad passes through the county from north to south, entering near Coles at the base of the Siskiyou Mountains and leaving it near Dunsmuir, where are located its roundhouse and machine shops. The California Northeastern Railroad, at present a branch of the Southern Pacific, leaves the main line at Weed, and traverses the county in a northeasterly direction, passing through Butte Valley and then extending into eastern Oregon.

The scenic beauties and health-giving springs abounding in all portions of the county make this the mecca of the summer tourist and health seeker. The Marble Mountains, now but little known to tourists, will in time rival the Kings River Canyon, and the Yosemite Valley. Chief among the noted resorts are the famous Shasta Springs, Neys Springs, Shasta Retreat, and Upper Soda Springs, all situated in the Sacramento River Canyon. One hundred thousand gallons of the waters of these springs, and the Table Rock Mineral Springs are bottled annually. Sisson, at the base of Mount Shasta, where the largest fish hatchery in the world is located, Garretson's Springs in the Siskiyou Mountains, and the Klamath Hot Springs are noted health resorts. In all portions of the county fish and game abound, making it an ideal field for the sportsman.

Some of the largest pine lumber mills on the coast are located here, chief among which are the McCloud River and Weed Lumber Company plants. Vast areas of the timber lands after the removal of the timber make valuable farms.

Lumbering is the chief industry, with mining and live stock a close second and third. The mountain ranges furnish splendid range during the summer season for thousands of horses and cattle. New gold mines are being discovered, and old ones continue good with depth.

Yreka is the principal town, the courthouse, jail, hospital, and new hall of records are splendid buildings; two electric plants furnish light and power. The city owns its water system; water is obtained from the adjacent mountains, and being filtered through gravel beds is as pure as any in the State. All this added to our present prosperity, our temperate climate and natural advantages, assures for Siskiyou a bright future. Siskiyou is an inviting field for the homeseeker. By the last census returns there are but three inhabitants per square mile.

STATISTICS OF SISKIYOU COUNTY, 1909-10.

General Statistics.		Fruits, V	egetables, Etc.	
Area 6,048 square miles, or 3,870		,	Total	
Number of farms	1,000 \$1.894.302	Green-	Production. Pounds.	Value.
Value of country real estate		Apples	3,200,000	\$64,000
Of improvements thereon	\$2,822,376	Beans	30,000	1,800
Of city and town lots		Beets		14,000
Of improvements thereon		Cabbage	500,000	10,000
Of personal property	\$2,150,635	Celery	5,000	500
Total value of all property	\$15,796,406	Cauliflower		200
Expended on roads, last fiscal	\$65,426	Cherries		2,500
year	\$00,420	Onions		1,800
Expended for bridges, last fis-	\$6.367	Pears		2,000
Number of miles of public roads		Peaches	200,000	4,000
Road levy per \$100, 1910	40c	Plums	400,000	8,000
Value of county buildings		Irish potatoes		40,000
Irrigating ditches (miles)	300	Strawberries		1,200
Railroads, steam (miles)	204	Tomatoes	50,000	1,000
Electric power plants (number)	6		-	0171 000
Electric power lines (miles)	163	Total value		\$151,000

STATISTICS OF SISKIYOU COUNTY, 1909-10-Continued.

Cereal Products and Hay	y.	Live Stock Industry.	
Tons of 2,000 pounds.		Number.	Value.
Acres. Bushels.	. Value.	Cattle—Beef 8,000	\$320,000
Wheat100,000 2,000,000		Stock 36,000	720,000
Barley 10,000 200,000		Dairy Cows—Graded 4,500	180,000
Oats 14,000 560,000		Calves 13,000	195,000
Rye 5,000 cut for h	ay	Swine 8,000	120,000
Corn 700	• • • • • • • •	Horses—Thoroughbred 16	32,000
Acres. Tons.	Value.	Common 4,000 Colts 1,500	400,000 45,000
Alfalfa hay 35,000 105,000	\$840,000	Jacks and jennies 20	20,000
Grain hay 12,000 24,000	240,000	Mules 990	135.000
Grass hay 15,000 35,000	280,000	Sheep 18,000	72,000
		Common goats 600	1,800
Total hay 62,000 164,000	\$1,360,000		
		_Total value	\$2,240,800
Number of Fruit Trees and	Vines.	Wool (pounds) 100,000	20,000
	Bearing.	Mohair (pounds) 2,400	400
Apple	16,000	Forest Products.	
Apricot	550	Amount.	Value.
Cherry	875	Area of timber lands	
Nectarine	100	(acres) 2,000,000	\$4,000,000
Peaches	5,000	Sawmills (number) 52	
Pear	2,500	Lumber (feet)220,050,000	4,400,000
Plum Prune	3,500 2,000	Miscellaneous Products	_
riune	2,000	Pounds.	Value.
Total fruit	30,425	Bees (hives), number. 5,000	\$25,000
Almond	50	Honey 125,000	12,500
Walnut	500		12,000
Other nuts	550	Manufactories.	
Grapevines (acres)	25	Number	
Berries (acres)	100	No. Employe	
		Wood boxes 6	\$1,000,000
Wines, Brandies, Etc.		Flouring mills 3	60,000
Gallons.	Value.	Jewelry 6	• • • • • • • • • • • • • • • • • • •
Natural mineral water 1,000,000	\$125,000	Leather goods 10 Lime 4	• • • • • • • • •
Daine Industry		Lime 4 Malt 3	
Dairy Industry.			• • • • • • • • • •
Production.	Value.	Manufactured Output.	
Butter (pounds) 680,000	\$242,000		Quantity.
Cheese (pounds) 40,000	\$ 6,000	Cigars	200,000

SQLANO COUNTY.

Nestled in the foothills of the Coast Range on its western border. and extending across broad acres of the most fertile land in bounteous California till its eastern confines are marked by the majestic Sacramento River, lies Solano County. It is, in part, in the Sacramento Valley, the great stream of northern California breaking through Solano's hills in the onward rush of ages toward the sea, and thousands of its acres being in the vast area that has been a world's granary for years, its products going to all lands. A quarter of a million acres, nearly half of Solano's area, is devoted to grain raising. grown here is the best milling wheat produced in the State. Thousands of cattle, horses, and sheep graze on the upland pastures and marsh lands, and great industrial establishments pay fortunes in wages annually, but the brightest gem in the diadem of resources and industries that marks the county's unquestioned leadership is the fruit produced in its sheltered valleys, a product that has made the county famous far and wide. The first deciduous fruit sold in the United States each year is grown in Solano County, where are several sequestered valleys, with gently rising slopes, sheltered by ranges of high hills that bar the egress of moisture-laden clouds in one season and shut out the hot, dry winds of another. Here the trees bloom in February and the fruit forms rapidly, ripening beneath the genial heat of the spring season, which is really early summer. In early April the shipments begin and continue until late fall. The soil is unexcelled, even in California, for productiveness, and the fruit raised on the limited area is sold for millions of dollars annually, returning fortunes to the orchardists of this favored section. Citrus fruits are marketed here a month ahead of the southern California products.

In the eastern section of the county, where the enterprise of man has wrested broad acres from overflow, is another fabulously rich section, the delta lands of the Sacramento River being noted for their productiveness. In addition, many large industrial establishments are located within the county, a great majority of the people being prosperous wage workers, whose yearly earnings, with the resources of the soil, the products of field, farm, and factory, make a store of wealth and prosperity that seems incredible, the income of the county from all sources exceeding the princely sum of twenty-two million dollars per year.

This favored section is of a limited area. From east to west its extreme length is 45 miles, while from north to south the county measures 35 miles. The surface of the county is 911 square miles, or 583,000 acres, of which 40,000 acres are water, included in the Sacramento River and Suisun and San Pablo bays. Besides its great natural resources, or rather because of them, Solano County ranks as one of the strongest counties in California, from a financial view-point. There is not a dollar of county debt, either bonded or floating. Three communities—Vallejo, Suisun, and Rio Vista—own their own water

systems and supply their inhabitants at rates at least fifty per cent lower than those paid in cities depending upon private capital for this essential necessity. The real property and improvements in the county are worth, at conservative valuation, \$30,000,000, while the mortgages amount to the comparatively insignificant sum of \$2,666,000, the major portion of which is represented in money invested in home building within the municipalities. The enormously rich agricultural and horticultural holdings are practically free of incumbrance.

The tax rate for county purposes is from \$1.00 to \$1.10 on the \$100.00 outside incorporated cities and towns, and 40 cents less inside, where no levy is made for road purposes. The expenditures, while by no means extravagant, are liberal for school, road, and hospital expenses. The county salary roll, including township officers, is about \$45,000 per year. The sum of \$50,000 to \$60,000 is annually spent on the roads, which are maintained in excellent condition throughout the year. Public schools cost over \$130,000 per year, of which \$37,500 is raised in the county tax. The sum of \$17,500 is spent sprinkling the roads, and over

\$11,000 for the expense of the homeless, sick, and indigent.

As in other respects, Solano County is greatly favored in climate. The rainy months are from November to March, with desultory rains a month or six weeks earlier and later. The dry season is from six to eight months. Grain and hay are kept in the field till hauled for shipment. Snow and hail are practically unknown, and frosts rarely do any damage to even delicate plants. The average rainfall is 16 to 20 inches, though it is greater in the fruit growing sections. Intense cold is unknown, and at Mare Island Navy Yard and other industrial plants hundreds of men work in the open air the year round. In summer the heat is never oppressive, rarely going above 100 degrees Fahrenheit. The nights are cool, a breeze from the ocean coming each day at sunset, cooling the atmosphere, and greatly adding to the health and comfort of the people.

The population in 1900 was 24,193, and is now estimated at 30,000, of whom nearly one half live in Vallejo and Benicia, the industrial centers of the county. The county could easily support double its

present population.

The land of Solano County varies in the purposes for which it is adapted, the following table having been compiled by E. N. Eager, when county surveyor, to show the area available for different modes of cultivation:

No. 1 fruit land	53,000 acres
No. 2 fruit or No. 1 grain land	
No. 2 grain or No. 1 pasture land	75,000 acres
Pasture land	45,000 acres
Mountainous grazing land	30,000 acres
Marsh or tule land	100,000 acres
Water	40,000 acres

STATISTICS OF SOLANO COUNTY, 1909-10.

General Statistics.	Fruits, Vegetables, Etc	c .
Area 911 square miles, or 583,040 acres.	Total	
Number of farms	Green Production Pounds.	Value.
Number of acres assessed 519,686 Value of country real estate \$10,501,856	Apples 2,600	
Of improvements thereon \$2,137,796	Apricots 1,148,662	
Of city and town lots \$2,217,346	Blackberries 3,000	
Of improvements thereon \$3,332,989	Cherries 2,377,620	
Of personal property \$2,575,388	Figs 10,000	
Total value of all property \$20,932,310	Grapes	52,87 2
Expended on roads, last fiscal year \$84,252	Nectarines 12,108	
Expended for bridges, last fis-	Pears	
cal year	Peaches 4,391,333	108,783
Number of miles of public roads 686	Plums 3,269,280	129,328
Road levy per \$100, 1910 4.11c	Totals31.433.603	\$1,051,236
Value of county buildings \$200,000	200020	41,001,200
Railroads, steam—miles, 73.45; assessed value\$1,815,398	Dried- Pounds.	Value.
Railroads, electric—assessed	Almonds 505,354	\$53,133
value \$26.039	Apricots 697,258	
Electric power lines—assessed	Beans 250,000	
value \$140,025	Cherries 1,683	
Number of acres irrigated 2,000	Figs 163,989	
	Nectarines 20,277 Pears 3,023,055	
Cereal Products and Hay.	Prunes 7,670,000	
Tons of 2,000 pounds.	Walnuts 35,000	
Acres. Tons. Value.	Apricot kernels 13,476	
Wheat		
Oats 6,000 3,000 75,000	Totals13,098,668	\$633,755
Corn 300	Canned— Cases.	Value
	Asparagus 40,000	Value. \$150,000
Total cereals191,300 114,300 \$3,015,000	Fruits 25,700	
Alfalfa hay 1,835 14,680 \$88,000	20,100	01,170
Grain hay 1,500 10,000 88,000	Totals 65,000	\$211,100
T-4-1 1 10.005 04.000 04.00	·	
Total hay 16,835 24,680 \$168,000	Live Stock Industry.	
Wines, Brandies, Etc.	Number	. Value.
Gallons.	Cattle—Beef 2,243	\$67,300
Dry wines 345.000	Stock 2,546	
Sweet wines	Dairy Cows—Graded 6,518	140,195
Champagne 20,600	Thoroughbred—	
Beer (barrels) 2,000	Angus 540 Shorthorns 90	
Vinegar 800	Calves 5,000	
Number of wineries, 3; number of brew-	Swine 3,481	
eries, 3.	Horses—Thoroughbred 60	
Fish Industry.	Standard-bred 130	9,800
Pounds.	Common 8,480	212,000
Salmon 600,000	Colts 531	
Dairy Industry.	Jacks and jennies 55	
Production.	Mules	
Butter (pounds) 4,176,530	Lambs	
Bottled milk (gallons) 720,000	·	
Number of creameries, 6; number of bot-	Total stock 85,260	\$822,635
tling concerns, 1.	Wool (pounds) 600,000	90,000
- •		

STANISLAUS COUNTY.

Stanislaus County lies in the northern end of the great San Joaquin Valley 114 miles from San Francisco, and 30 miles from tide water on the San Joaquin River. It is bounded by the Sierra Nevada Mountains on the east and the Coast Range Mountains on the west. The county is drained by three large rivers, the Stanislaus, the Tuolumne, and the San Joaquin rivers. The soil ranges from a light sandy loam in the southerly part to a heavy sandy loam in the central part, and adobe and red lands in the east. The climate is marked by long, dry, and only moderately hot summers, and short, mild winters, the average summer temperature being 72°. Ice rarely forms in the winter, and then only a thin skin. Lemon and orange trees flourish the year around without shelter.

As a health resort the county is not surpassed by any county in the State. Malaria is practically unknown, and we are not subject to any contagious or other dangerous diseases.

The county is crossed by four lines of railways, while the Sierra road connects Oakdale and vicinity with the mountain counties to the north. A short line of road connecting Modesto with the Santa Fe has been completed during the past year. A line connecting Modesto with tide water at Stockton is now in process of building, and other lines are projected.

The county contains four incorporated towns—Modesto, the county seat, in the central part, Newman in the west, Turlock in the south, and Oakdale in the north.

Education is provided for by many grammar schools and fine high schools.

The two irrigation districts are being rapidly cut up into small tracts and planted to alfalfa, fruit, and vines.

STATISTICS OF STANISLAUS COUNTY, 1909-10.

General Statistics.		Live Stock 1	Industry.	
Area, 951,040 acres.			Number.	Value.
Number of farms	4,000	Cattle—Beef	834	\$7,720
Number of acres assessed	874,000	Stock	11,461	137,675
Value of country real estate		Dairy Cows—Graded	8,000	600,000
Of improvements thereon	\$1,406,175	Thoroughbred—	90	0.000
Of city and town lots	\$1,401,205	Dutch belted	$\begin{array}{c} 20 \\ 10 \end{array}$	2,000
Of improvements thereon	\$1,364,440	Guernsey Holsteins	100	$1,000 \\ 10,000$
Of personal property	\$2,909,270	Jersey	300	45,000
Total value of all property	\$21,184,005	Polled Angus	őğ	900
Expended on roads, last fiscal	950 150	Calves	7,189	58.025
year	\$50,152	Swine	8,000	80,000
Expended for bridges, last fis- cal year	\$61.533	Horses-		
Number of miles of public roads	900	Standard-bred	43	950,040
Value of county buildings	\$80,000	Common	8,253	379,075
Irrigating ditches - miles, 265;	400,000	Colts	1,843 87	48,435
cost	\$1,149,425	Jacks and jennies Mules	4.006	5,285 $253,400$
Railroads, steam—miles, 131.36;		Sheep	27.454	68,895
assessed value	\$3 ,018,387	Lambs	13,870	6,940
Electric power plants — 5; as-	***	Angora goats	666	1,550
sessed value	\$ 30, 5 50			
Electric power lines—miles, 87;	\$88,370	Total stock	92,145	\$2,655,940
assessed value Number of acres irrigated		Wool (pounds)	300,000	52,000

STATISTICS OF STANISLAUS COUNTY, 1909-10-Continued.

Fruits, Vegetables, Et Total		Cereal Product	s and Hay.	
Green Production Pounds.	Value,	Acres	Ruchele	Value.
		Wheat 82,500	1,856,250	1.559.250
Apricots 1.810.00	9,440 22,625	Barley130,050	3,058,776	1,376,449
ASPAIASUS 1.40	טטט ט	Wheat	459,045 41 520	1,376,449 210,150 27,988
Blackberries 40,00 Cabbage 40,00	0 4,000 800	Egyptian corn 6,436	100,400	65,260
Celery 5.00	500			
Cauliflower 40.00	0 800	Total cereals.237,516	5,515,991	3,23 9,097
Cherries 54,00 Grapes	66,650	Acres.	Tons.	Value.
Grape fruit 30	0 66,650 0 80	Alfalfa hay 71,169	259,614	2,176,719
Limes (boxes) 5		Grain hay 7,500 Grass hay 1,000	14,000 1,000	36,000 6,000
Limes (boxes) 5 Lemons 25,00	0 2.500	Grass hay 1,000	1,000	6,000
Loganberries 20.00	0 1,600	Total hay 79,669	264,614	2,218,719
Nectarines 6,00 Onions 200,00 Oranges 500,00	2,000			
Onions	5,000	Number of Fruit T		
Olives 300,00 Pears 905,00 Peaches 2,082,00 Peas 80,00 Peas 20,70	1 4500	Bearing.	Non-bearing.	
Peacher 9.092.00	9,050 0 20,800 0 3,200	Apple 4,700	1,040	5,740
Peas	3 200	Apricot 9,050 Cherry 1,350 Fig 6,150	31,000 1,100	40,050
		Fig 6,150	1,100 160,200	2,450 166,350
Plums 805.50 Irish potatoes 300,00 Sweet potatoes 10,010,00 Prunes 1,438,00 Outroor 1,438,00	3,000	Lemon 2.330	3,210 125	5,540
Prines 1 429 00	0 175,175 0 28,760	Nectarine 60	125	185
Quinces 1,438,000	28,760	Olive 5,330 Orange 10,780	10,750 15,320	16,080 26 ,100
Raspberries 6,00 Strawberries 20,00	0 500	Peach 50 410	39X.510	448,920
Raspberries 6,00 Strawberries 20,00	1,700 0 200	Pear 3,620 Plum 5,370	6,480 7,820	10,100 13,190
10maioes	200	Plum 5,370	7,820	13,190
Watermelons18,545,000 Cantaloupes 1,800,00	370,900 0 180,000	Prune 7,190 Quince 94	7,180 65	14,370 159
Dried Pounds.	Value.	Other kinds 20	35	55
Apricots 728 00	0	Total fruit 105,454	942,835	1,049,289
Beans 392,50 Pears 5,00 Peaches 800,00	0	Almond 8,960 Walnut 4,720	62,050	71,010
Pears 5,00	\$250	Walnut 4,720	3,640	8,360
Peaches	99 005	Total nut 13,680	65,690	79,370
Raisins 270,000	28,005 0 16,200			-
		Grapevines 1,050	8,450	9,500 75
Totals 2,134,18	\$201,543	Berries, acres. 75 Acres of cantaloupes		150
Canned— Cases.	Value.	Watermelons Garden truck Trees		401
Apricots 5,88	\$ \$12,953 67,242 54,000	Garden truck	• • • • • • • •	1,254
Peaches	67,242			9,350
Plums 16		Tomatoes		40
Plums	3,750	Tomatoes Sorghum Beets		30 7
Peaches in gallon cans 3,24	3,750 5,855	Beets		.7
Apricots in gallon cans 1,20	3 2,646	Nursery		30 302
Totals 72,66	\$146,802	Manufact		•02
Dairy Industry.			Number of	Value of
Production	. Value.		o. Employees.	Products.
Cream52,140,88	\$938,655	Brick	1 10 3 6	\$60,000
Butter (pounds) 2,535,51	9 903,144	Confectionery	3 6 3 12	10,500 31 250
Creameries, 4; cream station	0, 14.	Flouring mills	1 12	16,500 31,250 82,500
Poultry and Eggs.		Leather goods	8 20	47,595
Dozen.	Value.	Meat products— Hides		42,372
Chickens 30,87		l lard		880
Ducks 15 Geese 5		Tallow		1,554 3,000 4,000
Turkeys 30		Olive oil	<u>.</u>	3,000
Eggs 1,003,79	4 334,598	Ice	1 ····i0	10,000
Madal malus	AFAO 550	Mealfalfa	T 0	21.000
Total value	. \$500,758	Grape juice	1 10	21,000 3,000
Forest Products.	Walne	Manufactured	l Output.	
Amount.			•	Quantity.
Fuel, wood (cords) 2,00		Brick		600,000
Power used for mills and main county—Steam (number) 2	inuractories			30 0,000
in county—Steam (number), 2 (number), 12; water (number),	2.	Flour (barrels)	• • • • • • • •	15,000 470,800
		Lard (pounds)		8.800
Miscellaneous Product	s. 	Tallow (pounds)		38,850
Pounds.	Value.	Flour (barrels) Hides (pounds) Lard (pounds) Tallow (pounds) Olive oil (gallons) Ice (tons) Mealfalfa		8,800 38,850 1,000 1,000
Bees (hives), number. 2,00 Beeswax	0 \$2,000	Meelfelfe	• • • • • • • • • • • • • • • • • • • •	1,000 1,500
Deeswax 18,00	010 د	imparraira	• • • • • • • •	1,500

SUTTER COUNTY.

Almost in the center of the far-famed valley of the Sacramento is located the county of Sutter, the larger portion of which lies between the Sacramento and Feather rivers directly at their confluence. The remaining portion of the county lies east of the Feather River, just south of Bear River. Surrounded by rivers on almost every side, it is evident that the soil of the county is largely river-made, the wash of a thousand years from the Sierra Nevada and Coast Range Mountains, and is deep and fertile, the equal of any in the whole State of California.

Although fruit and grain raising is the principal industry of the county, dairying is rapidly becoming an important industry and can be carried on successfully in almost any part of the county, There being one of the largest creameries in the State located at Meridian, that of the Western Consolidated Creamery Company, affords a market for the produce of the dairymen. There is also another creamery establishment located in Yuba City, which is doing a thriving business.

In the town of Yuba City, which is the county seat, with a population of 2,000, there are located one large packing house, two canneries, flour mill, and other smaller manufacturing concerns, which give employment to several hundred people during the harvest season.

The western portion of Sutter County in particular is being rapidly developed. The large land holdings are being cut up and sold out in small tracts to the Eastern homeseeker, upon which he can make a most profitable living. Meridian is a prosperous little town, located in the western portion of the county, as well as Live Oak, in the northern part, and Nicolaus in the southern division.

Transportation facilities about the county are of the best, there being the Western Pacific, Southern Pacific, Northern Electric railway companies, and river boats on the Sacramento River.

Sutter County is the home of the Thompson seedless grape, which is being grown so extensively in various valleys of the State. The largest vineyard of the Thompson variety in the world, which is owned by J. P. Onstott, is located but two miles west of Yuba City.

STATISTICS OF SUTTER COUNTY, 1909-10.

General Statistics.		General Statistics—Continued.	
Area 601 square miles, or 384,079	acres.	Expended for bridges, last fis-	
Number of farms	1,350		\$3,983
Number of acres assessed	380,000	Number of miles of public roads	756
Traine of country most sateto	\$8.870.760	Road levy per \$100, 1910	40c
Of improvements thereon	\$1,679,960	Value or county buildings	\$40,000
Of city and town lots	\$413,300	Irrigating ditches — miles, 10;	10 500
Of improvements thereon	\$1.046.700	cost	12,500
Of personal property		Railroads, steam (miles)	53.12
Total value of all property		Railroads electric (miles) Electric power lines—miles,	30.10
Expended on roads, last fiscal	,,,,,,,,,	102.10: assessed value	\$60.845
year	\$22,368	Number of acres irrigated	8,750



STATISTICS OF SUTTER COUNTY, 1909-10-Continued.

Number of	Fruit T	rees and V	ines.	Cereal Products	and Hay	
	Bearing.	Non-bearing.	Total.	Tons of 2,000	pounds.	
Apple	4,372	3,988	8,360	Acres.	Bushels.	Value.
Apricot	4,804	904	4,804	Wheat 21,596	431,920	\$388,728
Cherry	1,186	204	1,480	Barley 26,003	780,090	351,040
Fig	13,456 754	5,25 5	18,711 754	Oats 3,825	153,000	68,850
Lemon Olive	1,245	• • • • • •	1,245	Corn 1,160	146,400	27,880
Orange	1,110	• • • • • •	1,110			
Peach	180,854	37.132	217,986	Total cereals 52,584	1,511,410	\$836, 498
Pear	11,309	6,641	217,986 17,950	Acres.	Tons.	Value.
Plum	5.310	600	5,910	Alfalfa hay 4,890	48,900	\$342,300
Prune	58,612	5,216	63,828	Grain hay 6,185	9,278	92,780
Total fruit	283 012	59,126	342,138			
		•	•	Total hay 11,075	58,178	\$4 35,08 0
Almond Walnut	68,895 507	26,669 227	95,564 734	Fish Indu	etro	
wamut		221	101			**. *
Total nut	69,402	26,896	96,298	G-1	Pounds.	Value.
	,	,	,	Salmon	40,000	\$2,800
Grapevines,	4 000	1 000	5,200	Pike	5,000 5,000	250 350
acres Berries, acres.	4,000 15	$\substack{\textbf{1,200}\\2}$	5,200 17	Striped bass	5,000	
Derries, acres.	19	2	11	Totals	50,000	\$3,400
Fruit	s. Vegeta	bles, Etc.				• •
		Total		Live Stock I	ndustry.	
a		Production.	37.3		Number.	Value.
Green-		Pounds.	Value.	Cattle-Beef	1.250	\$50,000
Apples		700,000	\$14,000	Stock	4,500	112,500
Apricots Asparagus		200,000 120,000	$\frac{2,500}{2,400}$	Dairy Cows—Graded	4,064	162,560
Blackberries		24,000	960	Calves	2,899	34,788
Cabbage		60,000	450	Swine	6,043	72,5 16
Cherries		74.000	3,700	Horses—Thoroughbred	7 409	7,000
Grapes	1	6,000,000	240,000	Standard-bred Common	2.515	81,800 201,2 00
Olives Pears		200,000	4,000	Colts	$\frac{2,315}{1,276}$	89,32 0
Pears		1,600,000	32,000	Jacks and jennies	43	6.450
Peaches	1	10,500,000	105,000	Mules	1,950	273,000
Plums Irish potatoes			$3,750 \\ 19,385$	Sheep	50,109	150.327
Ilish potatoes	• • • • • • • •	2,205,000	19,360	Lambs	9,294	18,588
Totals		32,043,000	\$428,145	Total stock	84,359	\$1,260,049
Dried-		Pounds.	Value.			
Almonds		350,000	\$38,500	Wool (pounds)	300,000	37,500
Apricots		28,000	2,800	.	_	
Beans		972,000	38,800	Poultry and		
Figs		750,000	18,750		Dozen.	Value.
Pears	• • • • • • • •	50,000	4,000	Chickens	13,008	\$78,048
Peaches			74,491 67,500	Turkeys	1,118	22,360
Raisins		4 200 000	710,000	Eggs	• • • • • • •	142,000
				Total value		\$242,408
Totals	1	19,528,000	\$954,841	1000 70100	•••••	4212,100
Canned—		Cases.	Value.	Miscellaneous	Products.	
Peaches		75,000	225,000		Pounds.	Value.
_				Bees (hives), number.	395	\$874
I	Dairy Inc			Hops	75,000	15,000
5 4 4 5		Production.	Value.	Alfalfa seed	150,000	24,000
Butter (pounds		474,500 480,000	\$142,350 76,800	Sutter county has of employs eight people,		mill, that n annual
Cheese (pound: Creameries, 2				product worth \$140,000.	W1011 6	ammudi
Cicamones, 2	, 542111111		~,	, p		

TEHAMA COUNTY.

Tehama County occupies the upper or northern portion of the Sacramento Valley. It is 200 miles north of San Francisco and 120 miles north of Sacramento. Part of its eastern boundary follows the summit of the Sierra Nevada Mountains, and its western boundary lies along the summit of the Coast Range. Its greatest length is 78 miles; its width from north to south, 38 miles. Of its area, speaking roughly, 700,000 acres are agricultural lands, 800,000 grazing, and 500,000 timber.

Red Bluff is the county seat. It is a clean, modern little city, located upon an elevated plain, with superior drainage, and with the Sacramento River washing the foot of the bluffs on one side. Other towns

are Corning, Tehama, Vina, Paskenta, and Kirkwood.

The county is easily reached, being on the line of the California and Oregon branch of the Southern Pacific Railroad. Two lines of this road converge at the town of Tehama, 12 miles below Red Bluff; one coming up the valley on the west side, and the other on the east side of the Sacramento River. North of Tehama there is but one line of track. The Sacramento River is navigable to Red Bluff, and steamboats from San Francisco and Sacramento make weekly trips up and down during most of the year.

Telegraph and telephone lines follow the railroad, and several private

lines are in operation.

The public school system is complete and excellent. A school is maintained wherever there is need of one.

The Sacramento River runs through the county from north to south. From this river there is a rise to the east and west until the summit of the mountain range is reached. South of Red Bluff and west of the river lie broad plains; beyond these rolling hills developing into the foothills of the mountains, and then the mountains themselves, which

rise quite abruptly to a height of from 3,000 to 9,000 feet.

In the alluvial land along the river the soil is mainly a dark brown, almost black, sandy loam, rich and deep. The table-land to the east is so rocky as to be of no use except for stock raising. On the west of the river the loamy lands merge into clayey loam second bottom; farther west is the sandier soil of the plains, gray, brown, and red in color; then the hills with reddish soil and gravelly loam. The creek bottoms have generally a yellowish soil. North of Red Bluff, in the hilly country, it is chiefly reddish clay and gravelly loam.

Tehama County is well watered. Numerous creeks carry streams from the mountain snows to the river. Wells can be dug anywhere to

reach water at a moderate depth.

Experience has shown that plenty of water means an increase in product and variety. It is practiced to some extent, but mostly for the cultivation of alfalfa. There is a great deal of water available for irrigation and the development of electric power, awaiting only the capital and energy to make it return a large profit.



The principal industries are horticulture, agriculture, stock raising, and lumbering. There is practically no mining. A large deposit of chrome ore to the west, valuable sulphur springs to the east, some indifferent placer claims to the north, and the story of mining is told.

The fruit industry gives employment to a large number of people, who can engage in healthful outdoor work in summer. Several thousand persons are directly or indirectly engaged in some branch of the

fruit business.

Olives are fast coming into favor as a crop and as a food. The tree grows rapidly and yields abundantly. The fruit brings a good price, and the demand is constant and growing. The fruit is picked green

or ripe.

Oranges and lemons do well and bear abundantly. No attempts were made to plant them in quantity until within the past few years. There are in yards all over the county numberless trees that bear profusely. Several small orchards have been planted within the last few years, but they have not yet come into bearing. The trees are healthy and vigorous.

Almonds are being grown with success.

Raisin grapes, and indeed all grapes, grow remarkably well. The raisins can be cured in the sun during the long summer days.

An immense winery is located on the Stanford ranch, in the southern

part of the county.

Peaches are the principal fruit. They are shipped green, and are canned and dried. The bulk of the crop is dried.

Prunes are readily cultivated and yield abundantly.

The apricot is the third fruit in importance. All the apricots are dried. The pits are sold for fuel, or for extracting the oil, which is used by druggists and confectioners.

Pears do well. The fruit is nearly all shipped green. The Bartlett

is the favorite.

Figs are attracting more attention since the procurement of blastophaga, the insect which fertilizes the Smyrna fig. A great many of these trees are now being planted, and no doubt this fruit will assume a larger place in the output of the county hereafter.

Apples are grown only in the foothills. The chief apple-producing region of the county is at Manton, 35 miles to the northeast of Red

Bluff, where very fine apples are raised.

Berries and all small fruits do well. They come into market early and sell readily.

In agriculture there has been a gradual change from the growing of wheat to fruit or other grains.

Hay is made from a mixture of wild oats and wheat grown together and cut when just on the point of turning. It is cured on the ground and then stacked.

Alfalfa, where water can be obtained, is the best of all forage crops. It is a splendid feed for cattle, hogs, and horses.

Experiments are being made looking toward the cultivation of hops

and sugar beets.

The stock business is carried on under conditions that differ from those of the Eastern states, and are differing from those of former years here. The owner of cattle, sheep, and goats finds it necessary to own or control two ranges; one in the valley for the winter months, and one in the mountains for the summer season. Considerable land has been withdrawn into temporary forest reserves. The number of men engaged in the stock business has greatly increased, and range land has been in greater demand as a consequence.

Sheep raising is easily the favorite branch of the stock business. This is the principal wool-producing county of northern California, and indeed of the State. Twice each year the buyers come here, and there is a busy time until the wool is sold. It is sometimes bought before the sheep are sheared. The favorite breeds of sheep are Spanish Merino, French, Merino, Southdown, and Cotswold for wool, and Shropshire more particularly for mutton.

The cattle business is conducted in much the same general way as the sheep business, except that the animals do not require constant care and herding; there is a further difference, that nearly every farmer has at least a few head of cattle, but few of them have any sheep. The favorite breeds of cattle are Holstein, Hereford, Jersey, and Durham.

Of late years Angora goats have come into greater favor. They are hardy animals, readily adapting themselves to a mountainous and hilly country which no other animal can occupy. They will eat almost anything; can protect themselves from wild animals, and their wool or mohair is in demand and brings a good price.

There is everywhere plenty of timber of various kinds for fuel, posts, etc., for immediate local use. Oaks are the principal trees of the valley, except along the streams, where willows, cottonwoods, and sycamores abound. Oak wood is the favorite fuel. But in the Sierra there is a magnificent belt of timber containing a great preponderance of sugar pine, which is one of the finest of timber trees. Several sawmills are located in this timber belt, and most of the land, if not all, is now owned by private individuals or corporations.

The wool, lumber, stock, fruit, hay, grain, etc., can all be sold at Red Bluff. A market is always available in San Francisco; and in Red Bluff, the county seat, there are local individuals and firms ready and willing to buy all of these products that are offered. There are large packing houses for fruit, warehouses for wool and grain, livery stables for hay, a flouring mill for wheat, and railroad and river means of transportation.

The large land holdings are being broken into smaller tracts to encourage immigration and settlement. The outlook is most hopeful.

STATISTICS OF TEHAMA COUNTY, 1909-10.

General Statistics.		Manufactories-Continued	l .
Area 3,200 square miles, or 2,048	3,000 acres.	Road levy per \$100, 1910	38c
Number of acres assessed		Value of county buildings	\$75,000
Value of country real estate		Irrigating ditches - miles, 355;	
Of improvements thereon		cost	\$86,000
Of city and town lots		Railroads, steam—miles, 57.83;	
Of personal property		assessed value	\$1,778,044
Total value of all property		Electric power lines—miles; 101;	
Expended on roads, last fiscal	VII,201,020	assessed value	\$5 2,050
year	\$40,710	Telegraph lines—miles, 116; as-	
Expended for bridges, last fis-		sessed value	\$12,795
cal year	\$38,924	Telephone lines—miles, 115; as-	*** ***
Number of miles of public roads	837	sessed value	\$1 0,9 30



STATISTICS OF TEHAMA COUNTY, 1909-10-Continued.

Fruits, Vegetables, Etc.		Number of Fruit Trees and Vines.
Total		Bearing. Non-bearing. Total.
Green— Production. Pounds.	Value.	Apple 18,650 3,750 22,400 Apricot 64,410 1,000 65,410
Apples 242.040	\$3,630	Apricot 64,410 1,000 65,410 Cherry 5,070 245 5,315
	9,196	
Asparagus	2,500 4,200 5,000	Lemon
Beans, string 100,000	5,000	Olive 67,460 7,260 74,720 Orange 12,780 12,780
Roots 50 000	2.500	Orange 12,780
Cabbage 205,000 Celery 22,000 Cauliflower 35,000	4,100 2,200 2,450	Pear 63,050 3,750 66,800
Cauliflower 35.000	2,450	Plum 6,000 6,000 Prune 115,700 7,820 123,520
Corn sweet 400.000	6,000	11 time 110,100 1,020 123,320
Currants 6.000	2,250	Total fruit1,046,430 230,280 1,276,710
Cherries	32,000	Almond 36,995 350 37,345
Assorted 1,15,000 Gooseberries 6,500 Grapes 15,050,000 Turnips 240,000 Melons 979,000	650	Walnut 3,000 3,000
Grapes	301,000 2,400 9,790	Total nut 39.995 350 40.345
Turnips 240,000	9,790	
	750	Grapevines 2,775 2,775
Loganberries 10,000	500	Berries, acres. 60 60
Assorted vegetables 156,000 Onions 60,000	6,100 1,800	Cereal Products and Hay.
Onions	10,051	Tons of 2,000 pounds.
Oranges (boxes) 10,051 Olives, pickled 825,575 Pears 1,981,629	10,051 82,557 29,725	Acres. Tons. Value.
Pears	29,725	
Peaches	59,723 59,223 5,100 2,600 2,720	Barley 43,860 7,438 163,636
Pumpkins 980,000	2,600	Oats 4,975 817 24,510 Beans 110 13 1,560
Pumpkins 980,000 Plums 271,961	2,720	Beans 110 13 1,560 Corn 250 200 5,000
Irish potatoes 760.000	1,000	Corn 250 200 5,000 Hops 175 170 34,000
Sweet potatoes 240,000 Prunes 77,156	2,400 772	
Peanuts 4,000	200	Total cereals 87,000 12,608 \$347,806
Raspherries 11.500	575	Alfalfa hay 5,850 10,288 \$92,612 Grain hay 33,290 9,584 95,840
Strawberries 85,400 Tomatoes 1,400,000	4,270 25,000	Grain hay 33,290 9,584 95,840 Timothy hay 145 1,450
•	_	
Totals30,046,871	\$632,409	Total hay 39,140 20,017 \$189,902
Dried→ Pounds.	Value.	Wines, Brandies, Etc.
Almonds	\$67,286	Gallons. Value.
Apples 3,000	300	
Apricots	70,487	Sweet wines 504,500 \$252,250 Brandy 135,000 135,000
H123 X0 000	1,452 2,400 2,500	Number of wineries, 1; number of distil-
Onions 125,000	2,500	leries, 1.
Pears 520,216	36.415	Fish Industry. Pounds. Value.
Pears 520,216 Peaches 4,955,655 Peanuts 4,000 Plums 26,898 Peaches 4,000 Plums 26,898	247,783 200	I
Plums 26,896	\$07	Salmon 258,266 \$15,496
	148,004 1,250 2,749 42,359	Dairy Industry.
Raisins 12,504 Walnuts 27,488 Assorted 705,981	2.749	Production. Value.
Assorted 705,981	42,359	Butter (pounds) 132,000 \$39,600 Gallons of milk 255,600 51,120
		Gallons of milk 255,600 51,120 Gallons of cream 18,757 18,757
Totals11,893,813	\$623,992	Number of creameries, 2.
Live Stock Industry.		
Number.	Value.	Poultry and Eggs.
Cattle—Beef 77	\$2,315	Chickens, ducks, geese Value.
Stock	258,765	and turkeys 785,262 \$179,408
Thoroughbred 325	18.750	Eggs 206,590 61,977
Common 1.463	18,750 36,585	Total value \$241,485
Swine 5,111	25,555 139,015 4,950 56,830	Total value \$241,485
Horses—American 2,348 Standard-bred 16	4 950	Forest Products.
Common 1,745	56,830	Amount. Value.
Colts 860	31.3(0	Sawmills (number) 2
Jacks and jennies 45 Mules 1,017	$^{4,910}_{66,615}$	Fuel wood (cords) 9.395 \$56.370
Sheep 222,272	555,680	Lumber (feet) 8,500,000 85,000 Posts (pieces) 12,190 1,828
Common goals 19.690	19.690	
Thoroughbred bulls	1,700	tories (number) 1 65,000 Shakes (thousand) 507 5,070
Mule colts 339	1,700 1,725 11,050	Sash and door lac- tories (number)
Bucks 2,030	10,150	
Total stock 274,703		Total value \$213,268
		Power used for mills and manufactories
Wool (pounds) 1,878,152 Mohair (pounds) 61,637	281,723	in county—Steam (number), 3; electrical (number), 8.
	20,000	. (

STATISTICS OF TEHAMA COUNTY, 1909-10-Continued.

Miscellaneous	Products.		Manufactories-	Continued	
	Pounds.	Value.	i	Dosan.	Value.
Bees (hives) num-			Flouring mills		80,000
ber 200	2,500	. \$200	Foundries and iron		,
Broomcorn seed	80,000	2,400	works		12,000
Flowers and plants	00,000	2,200	Furniture and picture		,000
(acres)		10,000	frames		10,500
		500	Leather goods		7.500
Honey	340,000	84,000	Meat products-	• • • • • •	1,000
Hops			Hides (number)	146.057	\$14,605
Syrup (gallons)	4,525	2,250			
Mustard seed	19,540	977	Lard	40,300	4,030
Broom corn	40,000	2,000	Meat packed	72,000	9,000
Medicine	• • • • • •	3,000	Tallow	19,290	950
Tamales		4,000	Olive oil (gallons)	6,500	13,000
Comp pins		4,000	Pickled olives (gallons)	102,500	102,500
Ice		15,000	Salts, mine		4,000
Rugs		4,000	Syrups and extracts		2,250
Gas		8,000	Scouring mills		15,000
Ore	14,950		_		
Pits	199,689	2,000	Manufactured	Output	
Alfalfa meal		54,000		O acpaci	O
	• • • • • • • • • • • • • • • • • • • •	0-,000			Quantity.
Manufact	ortes		Brick (thousand)	• • • • • • • · ·	600
manuact			Cigars		15,000
	Amount.	Value.	Hides (pounds)		146.057
Brick		\$4,200	Lard (pounds)		40,300
Cement blocks		12,000	Meat packed (pounds) .		72,000
Cigars	******	15,000	Tallow (pounds)		19,290
Confectionery		23,100	Olive oil (gallons)		6,500

TRINITY COUNTY.

Trinity County is situated in the Coast Range of mountains and is drained by the Trinity, Mad, Eel, and Van Duzen rivers, and is well watered by the numerous creeks that carry streams of water from the mountain snows to the rivers and their tributaries. The higher mountain ranges being covered with snow during the winter season gives an ample supply for irrigation, and also provides an abundance of pasturage on the mountains. Trinity is bounded on the north by Siskiyou, on the east by Shasta and Tehama, on the south by Mendocino, and on the west by Humboldt County, thus being on the great mineral belt of the northwestern part of the State. Mining for gold has been the principal industry for fifty years. Hydraulic, placer, drift placer, dredge, and quartz mining have produced profitable results, and many hundreds of acres of auriferous gravel await exploitation, and also many quartz veins are as yet untouched. Many other valuable minerals have been found, but owing to the lack of cheap transportation facilities, none of them has been developed to any With an abundance of sugar pine, yellow pine, and fir timber ready for the market the lumbering interests will be extensive as soon as railroad transportation is provided. Two proposed lines of railroad have been surveyed into the county with the object of reaching the timber belts, and also the immense deposits of copper ore known to Indications have also been found of coal and oil. highway, now being constructed throughout the county, is attracting considerable attention to our different resources. The southern part of the county is particularly adapted for horticultural pursuits. Apples. pears, peaches, and grapes are now being grown there equal to any on the Pacific coast, and will develop into very profitable industries as soon as transportation facilities are provided. All kinds of fruits, berries, vegetables, grasses, hay, and grains, thrive and produce abundant crops.

Trinity can easily support four times the present population. unlimited mineral wealth undeveloped, vast timber resources, good educational facilities in all parts of the county, with a high school at Weaverville, the county seat, and with wagon roads and telephone lines extending to nearly all parts of the county, Trinity is an inviting field for the prospector, tourist, investor, and homeseeker. conditions are such that owing to the high prices of land in the more thickly settled portions of the State people must soon seek homes in our county where land is cheaper, and we have an ample supply of pure water, pure air, plenty of wood for fuel purposes, and a local market for many more products than we now raise. The climate of Trinity is temperate with a moderate snow fall on the higher mountains and sufficient rainfall in the lower portions to insure good crops and Many of the streams of Trinity have been stocked with different kinds of trout, and game is found in the different sections of the county. With many mineral and other springs, rugged and beautiful scenery, and clear running streams of pure water, people from the heated valleys find Trinity an ideal camping place for a summer's outing.

Carear Statistics Carear Products and Hay. Tosa of 1,000 square miles, or 1,920,000 acres Number of farms Samples Sample	STATISTICS	OF TRIN	IITY COUNTY, 1909-10.		
Number of farms Subhels Value	General Statistics.		Cereal Product	s and Hay.	•
Number of farms 11,987 2,200 34,120 2,200 34,120 2,200 34,120 2,200 34,120 2,200 34,120 2,200 34,120 2,200 34,120 2,200 34,120 2,200 3,400 34,120 2,200 3,400 34,120 2,200 3,400 34,120 2,200 3,400 34,120 2,200 3,400 34,120 2,200 3,400 34,120 2,200 3,400 34,120 2,200 3,400 34,120 2,200 3,400 34,120 2,200 3,400 34,120 2,200 3,400 34,120 2,200 3,400 34,120 2,200 3,400 34,120 2,200 3,400 34,120 3,200 3,2	Area, 3,000 square miles, or 1,920	,000 acres.	Tons of 2,000	pounds.	
Value of country real estate \$3,228,976 Sarley 120 \$4,400 4.250	Number of farms	827 615 097			Value.
Skepended on roads last fiscal year year year year Standard Year Year Standard Year Year Standard Year	Value of country real estate	\$2,228,976	Wheat 2,200	33,000	\$41,250
Skepended on roads last fiscal year year year year Standard Year Year Standard Year Year Standard Year	Of improvements thereon	\$246,841		3,300	3,000
Skepended on roads last fiscal year year year year Standard Year Year Standard Year Year Standard Year	Of city and town lots	\$27,690	Rye 50	1,000	1,000
Skepended on roads last fiscal year year year year Standard Year Year Standard Year Year Standard Year	Of personal property	\$317.714	Corn 400	8,000	12,000
Stypended on roads, last fiscal year dear or bridges, last fiscal year of the public trails foot of the property of the	Total value of all property	\$2,884,258	Total cereals 2.970	48,400	\$61.500
Description Section	Expended on roads, last fiscal	91 4 440			
Number of miles of public roads 448.21 48.821 48.	Expended for bridges, last fis-				
Number of miles of public trails 100		\$4,821	Grain hay 4,500	3,620	79,300
Value of county buildings	Number of miles of public roads	47/Z	Grass hay 7,900	11,850	71,100
Minist ditches miles, 489; cost \$378,000 Aprico 5,200 1,600 Cost	Road levy per \$100, 1910		Total hav 15,400	32.470	\$172,900
Minist ditches miles, 489; cost \$378,000 Aprico 5,200 1,600 Cost	Value of county buildings	\$20,000			
Mining ditches — miles, 489; cost Selectric power plants = 3; assessed value 320,000 Common goals Selectric power lines — miles, 32; assessed value 34,350 Color mining claims, 1,800; assessed value 34,350 Color mining claims, 1,800; assessed value 34,350 Copper mining claims, 18; assessed value 31,175 Copper mining claims, 28; assessed value 31,175 C		\$21 500			
Section power lines	Mining ditches—miles, 489; cost	\$978,000			Total.
Section power lines	Electric power plants — 3; as-		Apple 5,200	1,600	• • • • • •
Number of acres irrigated \$6,350 Number of acres irrigated \$9,350 Cold mining claims, 1,800; as sessed value \$1,556,774 Cold mining claims, 28; assessed value \$1,556,774 Copper mining claims, 18; as sessed value \$1,175 Cop	Electric nower linesmiles 32:	\$20,000	Cherry 572	110	
School Color Col	assessed value	\$6,350	Fig 39	24	
Sessed value	Number of acres irrigated	9,320	Lemon 15		
Sessed value Sess	Gold mining claims, 1,800; as-	\$1 556 774	Olive 5		
Copper mining claims, 18; assessed value Strawberries Strawb	Quicksilver mining claims, 28:	42,000,111	Orange 7	52	· · · · · · •
Fruits, Vegetables, Etc.	assessed value	\$12,15 0	Peach 1,260		
Pruits, Vegetables, Etc. Total Production. Pounds. Pounds. Pounds. Apples 476,900 \$9,538 Chestnut 45 60 60 Asparagus 1,500 60 Raspherries 32,000 1,500 Reats 50,000 1,250 Cabbage 115,000 3,250 Cauliflower 5,000 3,250 Currants 150,000 3,325 Currants 1,550 835 Currants 1,550 Raspherries 1,350 835 Currants 1,350 835 Currants 1,350 835 Currants 1,350 835 Currants 1,350 Raspherries 1,000 2,140 Caganherries 1,000 2,140	sessed value	\$1.175	Plum 1,130		
Pruits, Vegetables, Etc. Total Production. Pounds. Pounds. Pounds. Apples 476,900 \$9,538 Chestnut 45 60 60 Asparagus 1,500 60 Raspherries 32,000 1,500 Reats 50,000 1,250 Cabbage 115,000 3,250 Cauliflower 5,000 3,250 Currants 150,000 3,325 Currants 1,550 835 Currants 1,550 Raspherries 1,350 835 Currants 1,350 835 Currants 1,350 835 Currants 1,350 835 Currants 1,350 Raspherries 1,000 2,140 Caganherries 1,000 2,140		4 2,2.0	Prune 610	85	
Production			Quince 230		
Apples	Total Production		Total fruit 9,953	2,592	12,545
Appies 476,900 60 Appragus 1,500 60 Asparagus 1,500 60 Blackberries 32,000 1,500 Beans 20,000 1,250 Beans 20,000 1,250 Cabbage 115,000 2,350 Cauliflower 5,000 200 Carrier 150,000 3,325 Cauliflower 5,000 835 Corn 150,000 835 Corn 10,000 83	Green— Pounds.		Almond 25		. 25
Asparagus 1,500 60 Walnut 210 270 Blackberries 32,000 1,500 Beens 20,000 1,100 Beets 50,000 1,250 Cabbage 115,000 2,350 Celery 1,500 60 Cauliflower 5,000 200 Cauliflower 5,000 3,350 Currants 75 Currants 75 Cherries 16,500 835 Cigs 1,350 831 Cosseberries 107,000 2,140 Chapaberries 107,000 2,140 Conions 86,700 1,734 Pears 76,000 1,950 Peaches 96,000 1,950 Peaches 96,000 1,920 Peass 10,000 376 Pums 36,000 720 Crish potatoes 663,200 13,264 Currants 750 Cattle—Beef 1,110 \$29,750 Cattle—Beef 1,110 \$29,750 Cattle—Beef 1,110 \$29,750 Cattle—Beef 1,110 \$29,750 Catves 3,000 15,000 Catves 3,000 15,000 Catves 3,000 15,000 Catves 3,000 15,000 Common 1,900 95,000 Common 1,900 95,000 Colts 20,000 1,000 Co	Apples 476,900	\$9,538	Chestnut 45		
Beans 20,000	Apricots 2,000 Asparagus 1500		Pecan		5 270
Calcary	Blackberries 32,000	1,500	Other nuts		
Calcary	Beans 20,000	1,100			
Cauliflower	Cabbage	. 1,250 2,350			
Califidower 5,000 200 Corn 150,000 3,255 Corn 150,000 3,255 Corn 150,000 3,255 Cherries 16,500 835 Cherries 16,500 835 Cherries 1,350 815 Cooseberries 100 Coganberries 100 Coganberries 100 Coganberries 100 Corn Contons 86,700 1,734 Contons 86,700 1,734 Contons 86,700 1,550 Contons 2,500	Celery 1,500	60	Acres of grapevines	• • • • • • • •	
Cherries	Cauliflower 5,000	200	Raspberries		
Cherries 16,500 Figs 835 Incomplete services Loganberries 100 Gooseberries 100 Gooseberries 100 Gooseberries 5 Currants 6 C	Currants	75	Strawberries		
Currants 5 5 5 5 5 5 5 5 5	Cherries	835	Loganderries	• • • • • • •	
Cattle Berl Cattle Ber	Gooseberries 1,350		Currants		5
Nectarines 75	Granes 107 000	2,140	D-! V	14	
Pearl Pear	Loganberries				Value
Pears 75,000 1,550 Peaches 96,000 1,920 Peas 10,000 375 Plums 36,000 720 Irish potatoes 663,200 13,264 Sweet potatoes 2,700 81 Prunes 36,251 631 Quinces 750 Raspberries 2,500 Strawberries 4,200 Total value \$55,074 Dried— Pounds. Almonds \$150 Apples 8,000 Beans 43,750 Beans 43,750 Pears 3,500 200 210 Pears 3,500 200 11,700 Common 1,900 55,004 556,074 Common 1,900 550 250 Standard-bred 200 1,900 250 2,000 20 3,500 21 3	Onions 86.700	1.734			
Peas	Pears 75,000	1,550	Butter (pounds)	30,000	420,100
Plums 36,000 720 1718 potatoes 663,200 13,264 Cattle—Beef 1,110 \$29,750 Sweet potatoes 2,700 81 Stock 15,000 225,000 Dairy Cows—Graded 500 20,000 Cows	Peage 10 000	1,920	Live Stock	Industry.	
Prunes 36,251 631 Outroes Dairy Cows—Graded 500 20,000 Raspberries 2,500 Angus 50 5,000 Strawberries 4,200 Calves 3,600 15,000 Tomatoes 3,650 Swine 3,500 35,000 Horses—Thoroughbred 51,250 52,000 10,000 Common 1,900 95,000 200 10,000 Common 1,900 95,000 25,000	Plums 36,000	720			
Prunes 36,251 631 Outroes Dairy Cows—Graded 500 20,000 Raspberries 2,500 Angus 50 5,000 Strawberries 4,200 Calves 3,600 15,000 Tomatoes 3,650 Swine 3,500 35,000 Horses—Thoroughbred 51,250 52,000 10,000 Common 1,900 95,000 200 10,000 Common 1,900 95,000 25,000	Irish potatoes 663,200	13,264	Cattle—Beef	1,110	\$29,750
Quinces 750 Thoroughbred— Raspberries 2,500 Angus 5,000 Strawberries 4,200 Swine 3,500 35,000 Total value \$55,074 Swine 3,500 35,000 Dried—Pounds Value. Standard-bred 200 10,000 Common 1,900 95,000 Apples 8,000 640 Mules 250 2,500 Beans 43,750 875 Mules 250 12,500 Onions 30,000 750 Lambs 1,600 1,600 Peaches 4,700 329 Common goats 653 1,306 Prunes 1,600 80 Total value \$556,086 Walnuts Wool (pounds) 25,000 5,000	Prunes 36.251	631		500	20,000
Rasperries 2,500 Strawberries 4,200 Calves 3,000 15,000	Quinces	750	Thoroughbred-		•
Tomatoes	Kaspberries	2,500	Angus	3 000	
Horses—Thoroughbred 5 1,250	Tomatoes	3,650	Swine	3,500	25 000
Dried— Pounds. Value. Common 1,900 95,000 Almonds *150 250 2,500 Apples 8,000 640 Jacks and jennies 20 480 Apples 43,750 875 Sheep 250 12,500 Onions 30,000 750 Lambs 1,600 1,600 Pears 3,500 210 Angora goats 300 900 Peaches 4,700 329 Common goats 653 1,306 Plums 2,000 50 Total value \$556,086 Walnuts Wool (pounds) 25,000 5,000	Total malue		HorsesThoroughbred	5	1,250
Colts Colts 250 2,500			Common	1.900	95.000
Beans 43,750 875 Mules 250 12,500 Onions 30,000 750 Sheep 3,900 11,700 Pears 3,500 210 Lambs 1,600 1,600 Peaches 4,700 329 Common goats 653 1,306 Plums 2,000 150 Total value \$556,086 Walnuts 500 Wool (pounds) 25,000 5,000			Colts	250	2,500
Onions 30,000 750 Lambs 1,600 1,600 1,600 Pears 3,500 210 Lambs 1,600 1,600 900 Peaches 4,700 329 Common goats 653 1,306 Plums 2,000 150 Total value \$556,086 Walnuts 500 Wool (pounds) 25,000 5,000	Apples 8,000	640	Jacks and jennies	20 250	19 500
Lambs 1,600 1,60		875	Sheep	3 900	11,700
Peaches 4,700 329 Common goats 653 1,306 Plums 2,000 150 Total value \$556,086 Walnuts 500 Wool (pounds) 25,000 5,000	Unions 30,000		Lambs	1,600	1,600
Prunes 2,000 150 Prunes 1,600 80 Walnuts 500 Wool (pounds) 25,000 5,000	Peaches 4.700	329	Angora goats	300	
Walnuts 500 80 Total value \$556,086 Wool (pounds) 25,000 5,000	Plums 2.000	150	Common goats		
———— Wool (pounds) 25,000 5,000	Prunes 1,600	80 500	Total value		\$556,086
Total value			Wool (pounds)	25,000	5,000
	Total value	\$3,684	Mohair (pounds)	2,250	296

STATISTICS OF TRINITY COUNTY, 1909-10-Continued.

Wines, Brandies, Etc.		Forest Products.
Gallons.	Value.	Amount. Value.
Beer (barrels) 132	\$792	Area of timber lands (acres) 1,106,880 \$11,068,800
Cider 2,500	1,250	Cedar (acres) 5.000
Vinegar 6,000	1,550	Pine (acres) 440,000
Number of breweries, 1.		Redwood (acres) 701,180
		Sawmills (number) 20 30,000
Poultry and Eggs.		Fuel, wood (cords) 25,000 125,000 Laths 96,000
Dozen.	Value.	Lumber (feet) 5,000,000
Chickens 1,600	\$8,000	Pickets (pieces) 6,000 220
Ducks 50	400	Posts (pieces) 1,600 160
Geese	150	Shakes
Turkeys 500	5,000	Mine lagging 76,000 1,960
Eggs 130,000	32,500	Mine timbers (feet) 51,000 1,447
		Total value
Total value	\$46,050	Power used for mills and manufactories
•	• •	in county—Steam sawmills (number), 8;
Miscellaneous Products.		water sawmills (number), 12; steam quartz
Pounds.	Value.	mills (number), 4; water quartz mills
Bees (hives), number) 65	\$325	(number), 22; electrical quartz mills (num- ber), 4.

VENTURA COUNTY.

Ventura County, one of the smallest of the group of seven southern counties, lies between Santa Barbara County on the north and west and Los Angeles County on the south and east, on the shores of the Santa Barbara Channel. The county is triangular in shape, one face of the triangle, full 50 miles, fronting the ocean.

Of its area of 1,852 square miles, less than one fourth is under cultivation. Back from the coast in all directions rise rugged mountain ranges, whose hearts are pierced in every direction with canyons and valleys of varying width. The entire northern section of the county is mountainous, but between the ranges here and there are to be found

little valleys, whose soil is the most productive in the world.

The mountain watersheds supply innumerable streams which, flowing in different directions, form the two principal rivers of the county, from which is obtained a vast quantity of water for irrigation. rivers, the Santa Clara and the San Buenaventura, rise in these northern mountains, their sources being separated but a few miles. River, the Sespe, and the Santa Paula, each of considerable length from its winding through the mountain gorges and canyons, flow into and form the Santa Clara River, which enters the county on the southeastern border, and flows in a generally western direction straight across to the sea. This is a stretch of nearly 40 miles, and the stream, with its feeders north and south, becomes the life blood, as it were, of a magnificent valley covering the southern portion of the county from east to west. Beginning on the east with a width of 2 or 3 miles, the valley gradually widens until its western breadth along the seashore is about 20 miles. The valley is broken by detached mountain ridges, whose living streams not only aid in producing the inexhaustible water supply and enhance the fertility of the soil, but afford the finest scenery and most desirable health resorts.

The San Buenaventura River rises in the mountains in the northern part of the county, flows south, and enters the Pacific within 6 miles of the mouth of the Santa Clara.

The lower part of the Santa Clara Valley is a vast plain, 20 miles or more in width, extending back from the ocean in a great crescent, whose greatest distance is 10 miles from the shore. This plain for countless ages has been receiving the alluvial deposits brought down by the streams from the hills and mountains. It is the garden spot of the county, one of the most fertile tracts of land in the world, producing annually hundreds of thousands of dollars' worth of produce. Every variety of plant life does well in this section, but so well adapted is the soil to beans and beets that these are the staples.

Other products of the county—products in which it ranks with the leading counties in the State—are apricots, walnuts, lemons, and oranges, the yield of each of which is enormous. Not alone does the

county boast the largest lima bean ranches, but also the most extensive walnut grove, and the largest single lemon ranch.

Its mountain slopes are covered with verdure, and in its mountain valleys are many apiaries. In a good year a vast amount of honey is produced, netting big returns to the apiarist.

The narrow stretch of coast from southern Santa Barbara County, through Ventura County and including the northern portion of Los Angeles County, is the greatest lima bean section in the world, and Ventura County is the greatest bean-producing section in the world.

The sugar beet thrives in this great valley, and the percentage of sugar is greater here than in any other section in the world. The culture of sugar beets supports the Oxnard sugar factory, the second largest in the world, with a capacity of 2,000 tons a day.

Many herds of cattle and sheep are to be found in the mountain

sections, and stock rising is an important industry.

The county was the pioneer oil producer in this State, and its pro-

duction of petroleum is still large.

The mountains are rich in mineral wealth; among its productions may be mentioned asphalt, clay, gold, natural gas, petroleum, rubble, sandstone and borax. The output of oil for the year was 375,000 barrels, worth \$225,000, and 12,000 tons of borax, worth \$1,200,000.

STATISTICS OF VENTURA COUNTY, 1909-10.

SIMI	191169	OF VENI	OKA COUNTY,	1909-10.		
General Stat	tistics.		Number of	Fruit T	rees and V	ines.
Area 1852.66 square mile	es, or	1,185,704.95		Bearing.	Non-bearin	g. Total.
acres.			Apple	13.680	1.200	14.880
Number of acres assessed	d	594,595	Apricot	82,000	4,200	86,200
Value of country real es	tate		Cherry	4,800	600	5,400
Of improvements thereon		\$1,230,910	Fig	2.500	500	3,000
Of city and town lots		\$1,762,265	Lemon	180,000	60.500	240,500
Of improvements thereon		\$1,144,590	Nectarine	1.600	250	1.850
Of personal property		\$2,991,716	Olive	32,060	3,000	35.060
Total value of all proper		\$22,794,671	Orange	240,000	11.500	251.500
Expended on roads, last			Peach	6.800	900	7,709
year	<u>.</u>	\$82,19 5	Pear	4.800	800	5.600
Expended for bridges, las	st fis-		Plum	2.000	400	2,400
cal year	<u>.</u> .	\$45,962	Prune	11.000	250	11.250
Number of miles of public		656	Quince	1,000	100	1.100
Road levy per \$100, 1910		35c	Other kinds	7,000	7.000	14,000
Value of county building	8	\$140,000	Ctner kmus	1,000	1,000	14,000
Irrigating ditches—miles		\$344,900	Total fruit	589,240	90,200	679,440
Railroads, steam—miles,			Almond	12,000	2,000	14.000
assessed value		\$2,709,604	Walnut	140,000	6,280	146,280
Electric power plants-	1; as-	***	-			
sessed value		\$10,000	Total nut	156,000	8.280	164,280
Electric power lines-mil	es, bu;	***	a	110.000	40.000	****
assessed value		\$30,000	Grapevines		18,000	130,000
Number of acres irrigate	ea	14,350	Berries, acres.	200	• • • • • •	370
Cereal Products	and Hay	7.	Live	Stock 1	ndustry.	
Acres.	Tons.	Value.			Number.	Value.
Wheat 2,060	1.130	\$33,900	Cattle-Beef		15.000	\$600,000
Barley 14,500	6,525	143,550	Stock		8,500	178,500
Oats 1,600	380	9,360	Dairy cows-G	raded	1,200	36,000
Corn 1,850	720	18,000	Calves		3,450	20,700
			Swine		4,800	14,400
Total cereals 20,010	8,755	\$204,810	Horses-Commo	on	7 ,80 0	936,000
	1 500	910 500	Colts		1,200	30,000
Alfalfa hay	1,500	\$16,500	Jacks and jenn	ies	15	15,000
Grain hay	13,800	165,600	Mules		1,800	180,000
		#100 100	Sheep		28,700	142,500
Total hay	• • • •	\$182,100	Lambs		14,350	50,225
Dairy Indus	trv	į	Common goats	• • • • • •	400	900
	duction.	Value.			. -	20.004.00=
Butter (pounds)		\$25,508	Total stock .	• • • • • • • •		\$Z,ZU4,225
Creameries. 2.	12,000	₩20,000	Wool (pounds)		143,500	21,525

STATISTICS OF VENTURA COUNTY, 1909-10-Continued.

Fruits, Vegetables, Etc.		Wines, Brandies, Etc.
Total		Gallons. Value.
Production.	** **	Dry wines 50,000 \$15,000
Green— Pounds.	Value.	Number of wineries, 7.
Apples 188,000	\$1, 880	
Apricots 56,000	2,800	Poultry and Eggs.
Asparagus 3,800	380	Dozen. Value.
Blackberries 64,000	1,440 260	1
Beans 5,400 B ets 15,000	450	Chickens 5,400
Cabbage	175	Eggs 184,000 46,000
Celery 3,800	190	105,000
Cauliflower 6,000	300	Total value
Corn 56,000	2,800	410,020
Cherries 125,000	6,250	Forest Products.
Figs 6,000	300	Area of pine timber lands, 50,000 acres.
Grapes 145,000	8,700	Sawmills, 1; value, \$6,000.
Grape fruit 35,000	1,900	Fuel. wood, 6,500 cords; value, \$60,500.
Lemons (boxes) 225,120	1,003,040	Power used for mills and manufac-
Loganberries 12,000	240	tories-Steam, 12; electrical, 18; water, 1.
Nectarines 4,500	225 150	
Onions	140.500	Miscellaneous Products.
Oranges (boxes) 140,500 Olives 480,000	7,200	Pounds. Value.
Pears 86,000	2,580	Bees (hives)—Number 11.470 \$45.880
Peaches 92,000	2,760	Flowers and plants
Peas 7,500	375	(acres)
Persimmons 4.000	240	Honey 40,000 2,400
Plums 9,500	475	Garden seed 4,200 9,500
Irish potatoes 840,000	16,800	Sugar beets (tons) 187,000 981,750
Sweet potatoes 56,000	1,120	
Prunes 5,400	216	Manufactories.
Quinces 3,000	120	Number of .Value of
Raspberries 18,000	1,500	No. Employees. Products.
Strawberries 125,000 Tomatoes 80.000	6,250 800	Bookbinderies 1 2 \$2,200
Tomatoes	2,000	Brick 3 23 18,000
Rhubarb 20,000	2,000	Confectionery 3 8 15,000
161140410 20,000		Foundries and iron
Total	\$1,214,616	works 2 38 70,000
		Meat products— Hides 30,000
Dried-Pounds.	Value.	Lard 25,000
Almonds 84,000	\$10,080	Meat packed 4,500
Apricots 5,180,000	530,950	Tallow 800
Beans (small) 5,200,000 Onions 128,000	234,000 6,040	Planing mills 4 30 35,000
Peaches 1,000	100	Sugar, beet 1 650 2,000,000
Prunes	5,100	Tiling 1 4 8,000
Walnuts 2,876,613	402,725	1
Lima beans63,200,000	2,686,000	Manufactured Output.
		Quantity.
Total	\$3,874,995	Brick (thousand) 1,200,000
		Hides (pounds) 320,000
Fish Industry.		Lard (pounds) 175,000
Pounds.	Value.	Meat packed (pounds) 25,000
All kinds 1,625,000	\$ 48,750	Tallow (barrels) 350

YOLO COUNTY.

Yolo County is situated in a delta of the Sacramento River where it changes from a southerly to a westerly course on its way to the Pacific. About 75 per cent of the county consists of level land, the balance being rolling hills and mountains. The principal pursuits of its inhabitants are farming, stock raising, and fruit growing.

In 1910 our barley crop alone exceeded \$1,000,000 in value, while other cereals and hay reached a like amount. Our barley is largely of an export variety, and is shipped extensively to European centers, where it finds a ready sale and eager purchasers, who require a first class cereal for brewing and other purposes. Our other cereals are disposed of generally in local markets.

Our green fruits are shipped to Eastern markets, where they command top prices. Growers and shippers of these fruits have found this

avenue of disposal a very remunerative one.

Our dried fruits and nuts occupy an envied position in the list of our products. They are shipped and marketed all over the world. They are of a superior quality and flavor.

Our live stock interests are second to none. Here are found some of the world's greatest sires and dams, which are purchased here to head

stock farms all over the Western states, Mexico, and Canada.

Our dairy products bring in a revenue of \$560,000 per annum. This money is distributed among dairymen semi-monthly, enabling them to do business upon a cash basis. This industry is becoming an important factor in our county, and indications point to an added increase to our output in the near future.

Our streams abound with fish of many kinds, which remunerate fish-

ermen to the extent of \$325,000 per annum.

Hops to the value of \$140,000 are produced along our river bottoms.

This industry is constantly growing in magnitude.

Eucalyptus trees have been planted upon 1,790 acres. These trees, of which 320 acres are two years old, show a marvelous growth and bid fair to add great value to our forest products. The former value of land where these trees are now planted has increased fivefold. This industry is in its infancy, but is receiving much attention, as an increased acreage will be planted in 1911.

The manufacture of farming machinery is becoming an item of added importance and necessity. It gives local purchasers an opportunity to purchase a manufactured product they desire at reasonable prices. These products are in great demand throughout the Western states. Their foreign sales, already of importance, are increasing yearly.

Boat building, to the extent of \$75,000 in 1910, speaks well for our

increasing freight and river traffic.

Yolo County boasts one of the best equipped flour mills in the State.

Its output is shipped extensively and gives general satisfaction.

Yolo wines have a world-wide reputation. This industry could be profitably increased.



The poultry production for 1910 reached \$355,600. This industry

is growing yearly and is profitably followed by many.

Two hundred thousand dollars' worth of sugar beets were grown in our county in 1910. This industry is yet in its infancy, this being the third season only of its inception. When conditions are better understood by growers, this industry will become one of our principal productions.

Two railroads parallel our county north and south, while one crosses the southern part from east to west. An electric road is also in course of construction, which will also cross the southern part of the county and probably construct branch lines to other points.

We have a navigable water front of 90 miles along the Sacramento River, which affords at all seasons a cheap and ready means of trans-

portation for the numerous products grown along its banks.

The reclamation of overflowed lands (which are very fertile) grow apace with our other developments. Many large tracts have either been reclaimed, or are in course of reclamation.

Irrigation is fast becoming a valued factor in our development. Every opportunity is offered for the development of water storage,

which has been or is being taken advantage of at this time.

Our real estate is increasing in value at a rapid rate as Eastern and local purchasers continue to invest in small tracts, principally for homes. Real estate sales reached the sum of \$500,000 in the past year; this sum does not include the purchase of rights of way purchased by railroads.

Our cities and towns: Woodland, a city of 4,500 population, is situated in about the center of the valley of which three fourths of our county is composed. This is our county seat. This city boasts of an ideal government, has eleven churches, four schools, one high school, which is accredited by the State University, four banks, which are considered absolutely safe, and a chamber of commerce composed of some of our best business men who are advertising our county truthfully, and who are successfully interesting many homeseekers in our numerous opportunities for good investments. This is a city of homes. Our next city of importance is Winters, situated in the southwest part of the county. Winters has a population of 1,500, has six churches, two grammar schools, one high school, and several packing houses, and a cannery. This is the principal shipping point of our fruit product.

Broderick is situated in the southeast part of the county and has a population of 1,500. Many of its inhabitants are employed in Sacramento, which is just across the river. At this town are now being constructed two railway bridges at an estimated cost of \$1,250,000. One railway contemplates spending \$1,000,000 more in the near future upon levees, buildings, etc. This town has one large school, several churches, and here is also located our principal boat building yards, also the principal fisheries of the county. This town promises to become a great railroad center as well as a manufacturing point, located, as it is, accessible to many railroads, as well as water transportation.

Our other towns are Blacks, Dunnigan, Knights Landing, Madison, Esparto, Capay, Rumsey, and Davisville, which last is a railroad junction, and where a vast amount of freight and express is handled. Here at Davisville upon 685 acres of very fertile land is located the State Agricultural College, which is affiliated with the State University

and which is presided over by competent professors, who instruct in various branches of agriculture, dairying, etc. This college is becoming very popular and its courses are being taken advantage of by many local, as well as scholars from various parts of the State.

In conclusion, our lands, in so far as fertility is concerned, are second to none, our climate is ideal, our rainfall sufficient, there never having been a failure of crops. The inducements to homeseekers are all that could be desired. Absolutely everything which appeals to prospective purchaser can be found here, where a close inspection is courted and where the most incredulous may be satisfied.

STATISTICS OF YOLO COUNTY, 1909-10.

General Statistics.	Live Stock Industry.
Area 1,017 square miles, or 650,880 acres.	Number. Value.
Number of farms 900	
Number of acres assessed 613,609	
Value of country real estate \$12,150,840	Thoroughbred—
Of improvements thereon \$1,202,660 Of city and town lots \$868,620	
Of city and town lots \$868,620 Of improvements thereon \$1,485,260	
Of personal property \$2,433,210	
Total value of all property \$18,140,550	
Expended on roads, last fiscal	Shorthorns 250 25,000
year	Calves 2.500 20.000
Expended for bridges, last fis-	Swine 8,126 81,260
cal year \$20,290	Horses—Thoroughbred 189 14,175
Number of miles of public roads 687	Standard-bred 327 49,050
Road levy per \$100, 1910 40c	
Value of county buildings \$57,000	Colts
Irrigating ditches — miles, 72; cost \$2,198,365	
Number of acres irrigated 10,000	
Telegraph and telephone lines.	Lambs 12.004 36.012
Assessed value \$54,945	
	Sheep (thoroughbred) 467 9.340
Cereal Products and Hay.	Hogs (thoroughbred) 692 16,660
Acres. Bushels. Value.	Total stock 110 765 \$1 416 092
Wheat 14,500 239,700 \$214,830	Total stock 110,765 \$1,416,082
Barley 95,000 1,139,000 1,139,000	Wool (pounds) 504,000 75,000
Oats 1,200 42,666 24,000	Mohair (pounds) 25,000 5,000
Rye 100 2,000 1,200 Corn 500 15,000 10,000	Note.—\$100,000 may be added to this estimate for value of thoroughbred sires and dams.
Corn 500 15,000 10,000	· -
Total cereals111,300 2,775,583 \$1,389,550	Dozen. Value. Chickens
Tons of 2,000 pounds.	Ducks 1,500 7,500 Geese 120 1,080
Acres. Tons. Value.	Geese 120 1,080
Acres. Tons. Value. Alfalfa hay 12,000 41,000 \$500,000	Geese
Alfalfa hay 12,000 41,000 \$500,000 Grain hay 10,900 10,900 109,000	Geese 120 1,080 Turkeys 2,310 67,750 Eggs 565,000 124,300
Acres. Tons. Value. Alfalfa hay 12,000 41,000 \$500,000	Geese
Alfalfa hay 12,000 41,000 \$500,000 Grain hay 10,900 10,900 109,000	Geese 120 1,080 Turkeys 2,310 67,750 Eggs 565,000 124,300
Alfalfa hay 12,000 41,000 \$500,000 Grain hay 2,000 2,000 6,000 Total hay 24,900 63,900 \$605,000	Geese
Alfalfa hay 12,000 41,000 \$500,000 Grain hay 2,000 2,000 6,000 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc.	Geese
Alfalfa hay 12,000 41,000 (57ain hay 2,000 2,000 6,000 (6,000 Wines, Brandies, Etc.	Geese
Alfalfa hay 12,000 41,000 \$500,000 Grain hay 10,900 10,900 6,000 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1	Geese
Alfalfa hay 12,000 41,000 \$500,000 Grain hay 10,900 10,900 109,000 Grass hay 2,000 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1	Geese 120 1,080 Turkeys 2,310 67,750 Eggs 565,000 124,300 Total value \$355,630 Forest Products. Area of timber lands (acres) 1,790 \$402,750 Fuel, wood (cords) 5,891 32,400
Alfalfa hay 12,000 41,000 5500,000 Grain hay 10,900 10,900 10,900 6,900 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 5 Gallons Value.	Geese 120 1,080 Turkeys 2,310 67,750 Eggs 565,000 124,300 Total value \$355,630 Forest Products. Amount. Value. Area of timber lands (acres) 1,790 \$402,750 Fuel, wood (cords) 5,891 32,400 Total value \$435,150
Alfalfa hay 12,000 41,000 5500,000 Grain hay 10,900 10,900 6,000 Grass hay 2,000 2,000 6,000 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1 Sweet wines 156,973 \$62,790	Geese 120 1,080 Turkeys 2,310 67,750 Eggs 565,000 124,300 Total value \$355,630 Forest Products. Area of timber lands (acres) 1,790 \$402,750 Fuel, wood (cords) 5,891 32,400 Total value \$435,150 Power used for mills and manufactories
Alfalfa hay 12,000 41,000 5500,000 Grain hay 10,900 10,900 10,900 Grass hay 2,000 2,000 6,000 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1 Sweet wines 16,973 862,790 Gallons 862,790 Sec (barrels) 3000 90,000 18,000	Geese 120 1,080 Turkeys 2,310 67,750 Eggs 565,000 124,300 Total value \$355,630 Forest Products. Area of timber lands (acres) 1,790 \$402,750 Fuel, wood (cords) 5,891 32,400 Total value \$435,150 Power used for mills and manufactories
Alfalfa hay 12,000 41,000 5500,000 Grain hay 10,900 10,900 10,900 Grass hay 2,000 2,000 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1 Number of breweries 1 Sweet wines 156,973 \$62,790 Bcer (barrels) 3000 90,000 18,000 Brandy 22,500 22,000	Geese
Alfalfa hay 12,000 41,000 5500,000 Grain hay 10,900 10,900 10,900 Grass hay 2,000 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1 Number of Brandies 562,790 Gallons Sweet wines 156,973 \$62,790 Bcer (barrels) 3000 90,000 18,000 Vinegar 35,000 3,500	Geese 120 1,080 Turkeys 2,310 67,750 Eggs 565,000 124,300 Total value \$355,630 Forest Products. Area of timber lands (acres) 1,790 \$402,750 Fuel, wood (cords) 5,891 32,400 Total value \$435,150 Power used for mills and manufactories
Alfalfa hay 12,000 41,000 \$500,000 Grain hay 10,900 10,900 6,900 Grass hay 2,000 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of brewerles 1 Number of brewerles 1 Sweet wines 156,973 \$62,790 Bcer (barrels) 3000 90,000 18,000 Vinegar 35,000 3500 Fish Industry.	Geese
Alfalfa hay 12,000 41,000 \$500,000 Grain hay 10,900 10,900 6,000 Grass hay 2,000 2,000 6,000 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1 Number of breweries 1 Sweet wines 156,973 \$62,790 Bcar (barrels) 3000 90,000 18,000 Brandy 20,500 22,000 Vinegar 35,000 Fish Industry. Pounds. Value.	Geese
Alfalfa hay 12,000 41,000 5500,000 Grain hay 10,900 10,900 109,000 Grass hay 2,000 2,000 6,000 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1 Number of breweries 1 Sweet wines 156,973 \$62,790 Bcer (barrels) 3000 90,000 18,000 Brandy 20,500 22,000 Vinegar 35,000 3,500 Fish Industry. Salmon 1,600,000 \$160,000	Geese
Alfalfa hay 12,000 41,000 \$500,000 Grain hay 10,900 10,900 6,000 Grass hay 2,000 2,000 6,000 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1 Number of breweries 1 Sweet wines 156,973 \$62,790 Bcar (barrels) 3000 90,000 18,000 Brandy 20,500 22,000 Vinegar 35,000 Fish Industry. Pounds. Value.	Geese
Alfalfa hay 12,000 41,000 (55,000 (7as) hay 10,900 10,900 (7as) hay 24,900 63,900 \$605,000 (7as) hay 10,900 63,900 \$605,000 (7as) hay 10,900 63,900 \$605,000 (7as) hay 10,900 63,900 (7as) hay 10,900	Geese
Alfalfa hay 12,000 41,000 5500,000 Grain hay 10,900 10,900 109,000 Grass hay 2,000 2,000 6,000 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1 Number of breweries 1 Sweet wines 156,973 \$62,790 Bcer (barrels) 3000 90,000 18,000 Brandy 20,500 22,000 Vinegar 35,000 3,500 Fish Industry. Salmon 1,600,000 \$160,000	Geese
Alfalfa hay 12,000 41,000 (55,000 (7as) hay 10,900 10,900 (7as) hay 24,900 63,900 \$605,000 (7as) hay 10,900 63,900 \$605,000 (7as) hay 10,900 63,900 \$605,000 (7as) hay 10,900 63,900 (7as) hay 10,900	Geese
Alfalfa hay 12,000 41,000 (Grain hay 10,900 10,900 10,900 Grass hay 2,000 2,000 6,000 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1 Sweet wines 166,973 862,790 (Berndy 20,500 22,000 Brandy 20,500 22,000 Winegar 30,500 Fish Industry. Fish Industry. Pounda Salmon 1,600,000 G5,700 G5,700 G65,700 Totals 4,400,000 \$225,700	Geese
Alfalfa hay 12,000 41,000 5500,000 Grain hay 10,900 10,900 10,900 Grass hay 2,000 2,000 6,000 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1 Number of breweries 1 Sweet wines 166,973 862,790 8700 Brandy 20,500 22,000 Brandy 20,500 22,000 Vinegar 35,000 3,500 Fish Industry. Salmon 1,600,000 Other kinds 2,800,000 65,700 Totals 4,400,000 \$225,700 Dairy Industry.	Geese
Alfalfa hay 12,000 41,000 550,000 Grain hay 10,900 10,900 109,000 Grass hay 2,000 2,000 6,000 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1 Number of breweries 1 Sweet wines 166,973 862,790 82,000 Brandy 20,500 22,000 Brandy 20,500 22,000 Vinegar 35,000 3,500 Fish Industry. Pounds \$160,000 00 65,700 Totals 4,400,000 \$225,700 Dairy Industry. Creameries 2 Production Value. Butter (pounds) 1,511,590 \$517,720	Geese
Alfalfa hay 12,000 41,000 5500,000 Grain hay 10,900 10,900 109,000 Grass hay 2,000 2,000 6,000 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1 Number of breweries 1 Sweet wines 156,973 \$62,790 Bccr (barrels) 3000 90,000 18,000 Vinegar 35,000 3,500 Fish Industry. Pounda Salmon 1,600,000 65,700 Totals 4,400,000 \$225,700 Dairy Industry. Creameries 2 Production Value. Substitute (pounds) 1,511,590 Cheese (pounds) 211,870 37,077	Geese
Alfalfa hay 12,000 41,000 5500,000 Grain hay 10,900 10,900 109,000 Grass hay 2,000 2,000 6,000 Total hay 24,900 63,900 \$605,000 Wines, Brandies, Etc. Number of wineries 1 Number of distilleries 1 Number of breweries 1 Number of breweries 1 Sweet wines 156,973 \$62,790 Bcer (barrels) 3000 90,000 18,000 Brandy 20,500 22,000 Vinegar 35,000 3,500 Fish Industry. Pounda Salmon 1,600,000 65,700 Totals 4,400,000 \$225,700 Dairy Industry. Creameries 2 Production \$157,720 Butter (pounds) 1,511,590 517,720 Cheese (pounds) 211,870 \$7,077	Geese

STATISTICS OF YOLO COUNTY, 1909-10—Continued.

Fruits, Vegetables, Etc.	11	Number of Fruit Trees and Vines-C	
Total Production.		Bearing. Non-bearing. Olive 23,000 3,000 Orange 13,000 1,000	Total. 26,000
Green Pounds. Va	lue.	Olive 23,000 3,000 Orange 13,000 1,000	14,000
Apples 30,000	2000 F	Peach 71,000 22,000	92 000
Apricots 3,038,000 9: Asparagus 91,000 Blackberries 11,000	L.140 F	Pear 42,000 1,000	43,000 54,250 180,500
Asparagus 91,000	7,500 F 1,160 F	Plum 53,500 750	190 500
RASES 197 000 10	0,140 Q	Prune 180,000 500 Quince 500 100	600
Beets 120,000 Cabbage 977,000 Celerv 195,000 Cauliflower 245,000	2,400 C 9,770 3,900	Other kinds 1,975 100	2,085
Cabbage 977,000 Celery 195,000	770		
Coulifower 245,000	7,000	Total fruit 484,575 36,550	521,135
COTH 250.000	5 000 1 4	Almond 144,500 29,000	173,500
Currants 3.000	500	Pecan 540	540
Cherries 6,000 Figs 21,100		Walnut 8,200 1,800 Other nuts 50	10,000 50
F188 21,100	620 160	Other nuts 50	
Gooseberries 3,100 Grapes	9,815	Total nut 153,290 30,800	184,090
Grape Iruit 6.000	300 N	Number of grapevines	2,450,000
Lemons (boxes) 75	300 1	Number of berries, all kinds	160,000 21,000
Loganberries 95,000 Nectarines 8,000	9,000 A	Almonds planted season 1910	21,000
Nectarines 8,000 Onions 40,000 Oranges (boxes) 2,900	L,000 E	Peaches planted season 1910	16,000
Oranges (boxes) 2,900	,800	Note.—Estimate on cereals covers only t	hose which
Oranges (boxes) 2,900 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	750 N	were stored or shipped; 15 per cent may b this estimate.	e added to
Olives 9,000 Pears 1,489,280 Peaches 2,563,200 Peas 18,000 Persimmons 4,000 Plums 1,52,280 2 2	9,356 ti 3,448	this estimate. The numbers of trees are taken from	assessor's
Peas	900 b	books, and do not include those planted i	n the year
Persimmons 4,000	80 o	of 1910.	
Fiums	4,898	Manufactories.	
Irish potatoes 800,000	3,000 710		Value of
Sweet potatoes 27,000 Prunes 900,000 13	3,500	Number of No. Employees.	Products.
Prunes 900,000 13 Quinces 8,000	400 E	Bookbinderies 2 2	\$3,000
Raspherries 5,000	500 C	Carriages and wagons 9 18	37.500
Strawberries 45,000	4,600 C	Cigars 1 3 Clothing 12 17	9,250 45,000
Quinces 8,000 Raspberries 5,000 Strawberries 45,000 Tomatoes 2,000,000 Persimmons 37,000 Wine grapes 18,000,000 7,000	0,000 C	Confectionery 4 8	53,000
Persimmons 37,000 Wine grapes18,000,000 70	3,500 E	Flour mills 1 15	173,000
	I	Foundries and iron	00 700
Totals34,148,160 \$609	5,636	works 1 6 Furniture 4 9	29,500 13,225
		Leather goods (har-	10,220
Almonds 1,475,500 \$18 Apricots 3,442,250 29	1,437	ness) 6 11	30,175
Apricots	2,591	Carriage trimming 2 3	3,900 212,500
Beans 4,000,000 175 Figs	5,000 N	Machinery (farm) 17 44	212,500 2,080
Figs	3,000	Sheep pelts`	2,000
Nectarines 3,100	175	Hides (green)	8,000 23,000
	5,050	Lard 6 10	23,000
Peaches 4 002 500 200	125	Meat backed 5	6,000 1,300
Prunes 1,727,500 8	3,375	Olive oil 3 3	2,220
Pears 95,000 20 Peaches 4,002,500 20 Prunes 1,727,500 8 Raisins 3,500,000 12:	5,700 0,125 5,375 2,500	Pickles 2 2	2,220 2,000 15,300
Walnuts	1,920 1 2,150 1	Pickled olives 3 6	15,300
	1,130 E	Planing mills 5 12 Artificial stone 3 15	59,600 60,00 0
Pecans 4,300	020 (Granite	3,000
Apricot pits 1,100,000 13	r,000 J	Marble 2 2	3,000
Peach pits 120,000	600 j	Tin and galvanized	6 E 000
Totals23,931,850 \$1,200	3.033	iron 9 13 Tamales 4 6	65,000 11,050
•		Wood turning and	12,000
	7 000	Wood turning and carving 2 3	5,000
Apples 15,157 \$3' Cherries 639	7,892 N 1,597 H	Miscellaneous 10 50	100,000
Peaches	3,717 E	Boat building 2 17	75,000
Plums 796	1,990	Manufactured Output	
Tomatoes 160	400	Manufactured Output.	Quantity.
Totals 48,239 \$120),596 C	Cigara (thousand)	185,000
10(215 40,200 4120	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Lime (barrels)	25,000
Number of Fruit Trees and Vines.	Î	Hides (pounds, green)	80,000
	tal.	Cigars (thousand) Lime (barrels) Hides (pounds, green) Lard (pounds) Meat packed (pounds) Tallow (barrels) Olive oil (gallons) Sauerkraut (pounds), 12,000.	80,000 112,000 60,000
Apple 850 100	900	Meat packed (pounds)	60,000 100
Apricot 88,000 6,500 9	1,500	Olive oil (gallons)	3,700
Cherry 4,000	1,000	Sauerkraut (pounds), 12,000	\$360
Fig 5,300 500 Lemon 1,200 1,000	5,800 ~ 2,200	Dressed meats are shipped to t	he value
Lemon 1,200 1,000 Nectarine 300	300 0	of \$51,000.	Talue,
2100000100 1,11	300.0		
		·	

YUBA COUNTY.

Yuba County is about half valley and half mountains. In the mountainous portion the industries are mining, lumbering, and stock

raising, but considerable fruit and hay are produced.

At Hammonton and Marigold, on the Yuba River, dredge mining is carried on extensively. The machines are in operation day and night. The Colgate power plant derives its energies from the waters of the Yuba River. It has the longest transmission line in the State. Many important quartz mines are operated. The Feather River forms most of the western boundary. This stream is the second largest watercourse in the Sacramento Valley, and is navigable as far up as Marysville. Bear River is the southern boundary of the county. The Yuba River passes through the county about midway. These rivers are never failing in water supply. Subterranean water is available in most parts of the county. There are two irrigation districts that take water from the Yuba River.

The county is traversed by two lines of the Southern Pacific, by the Western Pacific, and by the Northern Electric railroads. The California Midland Railroad has obtained rights of way and will be built.

The county has at Wheatland the largest hop fields in the world. In the production of gold it ranks fourth among the counties of the State.

Marysville is well represented by manufacturing establishments. A woolen mill, a wool-scouring plant, a flour mill, a cannery, three foundries and machine shops, and other productive plants. Electric power is abundant, and shipping facilities are abundant and cheap. There is a ready market for all the manufactured product.

Land is very reasonable in price and very productive. Much of the desirable area of the county is practically undeveloped. The valley lands will successfully produce anything that can be grown from

Maine to Florida.

STATISTICS OF YUBA COUNTY, 1909-10.

General Statistics.		Cereal P	roducts	and Hay.	
Area 625 square miles, or 400,00	00 acres.		Acres.	Tons.	Value.
Number of farms	910	Wheat	25 000	18,750	\$532,500
Number of acres assessed	366,469	Barley		3,250	58,500
Value of country real estate	\$2,459,720	Oats	9,000		94,500
Of improvements thereon	\$498,040	Corn		300	9,500
Of city and town lots	\$773,020				
Of improvements thereon	\$1,144,325	Total cereals	40,525	26,800	\$725,00 0
Of personal property	\$1,550,560			•	Value.
Total value of all property	\$6,425,665	A16-16- 1	Acres. 630	Tons. 6.300	
Expended on roads, last fiscal	410 500	Alfalfa hay			\$50,400
year	\$19,526	Grain hay	3,99 0	72,325	73,950
Expended for bridges, last fis-	#1E 960	Total hay	10 180	18,625	\$124,350
cal year Number of miles of public roads	\$15,260 450	Total nay	10,100	10,020	ψ151,000
	40c	T	est Pro	A	
Road levy per \$100, 1910 Value of county buildings	\$208,000	FOR	est Pro	ducts.	
Irrigating ditches, cost	\$160,550			Amount.	Value.
Railroads—steam	\$800,000	Area of timber la		EC 000	e=c0 000
Electric	\$67,500	(acres)		56,000	\$560,00 0
Electric power plants; as-	40.,000	Fuel, wood (core		4,000 2,500,000	20,000 375,000
sessed value	\$94,000	Lumber (feet) . Posts (pieces) .		25,000	2,500
Electric power lines; assessed		Shakes (thousan		1,000	8,00 0
value	\$108,000	Shakes (thousan	u)	1,000	0,000
Number of acres irrigated	6,500	Total value			\$965,500
Telegraph lines, 72 miles; as-					
sessed value	\$ 5, 4 00	Power used for			
Telephone lines, 3,000 miles;		in county—Stean	n (nun	nber), 5;	erectricari
assessed value	\$35,00 0	(numbe r), 15.			

STATISTICS OF YUBA COUNTY, 1909-10-Continued.

	Fruit T	rees and Vi	nes.	Dairy Industry.	
		Non-bearing.		Production.	Value.
Apple	7,250	850	8,100	Butter (pounds) 219,000	\$525,600
Apricot	8,750	2,200	10,950	, · · · · · · · · · · · · · · · · · · ·	4020,000
Cherry	11,125	4,450	15 575	Live Stock Industry.	
Fig	4,495	2,500	6,995	Number.	Value.
Lemon	4,000	1,950	5,950	Cattle—Beef 4,100	\$141,000
Nectarine	400 9,000	185	585	Stock 500	90,000
Olive Orange	36,550	$\frac{1,550}{28,270}$	10,550 64,820	Calves	30,000 75,000
Peach	69,555	24,000	93,555	Swine	7,000
Pear	14,450	23,550	38,000	Standard-bred 23	6,500
Pear Plum Prune	655	300	950	Common 4.500	337,500
Prune	5,055	3,100	8,155	Colts 800	28,000
Quince	200	. 125	325	Jacks and jennies 25	1,000
Total fruit	171 400	93,030	264,570	Mules	62,500
Total fruit	111,200			Sheep 55,000	165,000
Almond	7,500	1,500	9,000	Common goats 650	1,625
Walnut	2,500	750	3,250	Totals 76,133	\$945,125
T-4-1	10.000	0.050	10.050		
Total nut	10,000	2,250	12,250	Wool (pounds) 400,000	\$ 73,00 0
Grapevines				Doubless and Pass	
(all kinds)	25,000		25,000	Poultry and Eggs.	
Berries, acres,				Dozen.	Value.
all kinds	325	• • • • • •	325	Chickens 9,000	\$54,000
				Turkeys 5,000	10,000 53,000
Fruits	, Vegeta	ables, Etc.		Eggs 180,000	93,000
		Total		Totals 194,000	\$117,000
Green-		Production. Pounds.	Value.	100000	411,000
Apples			\$920	Miscellaneous Products.	
Apricots		21,000	420	Pounds.	Value.
Celery		4,500	125	Bees (hives), number	\$845
Cauliflower		6 200	225	Hops 1,800,000	370,000
Grapes		8,200,000	40,125 270		•
Grapes Lemons (boxes Oranges (boxes)	_90	270	Manufactories.	
Oranges (boxes)	750	1,500	Number of	Value of
Pears	• • • • • • •	2,000,000	40,000 22,500	No. Employees.	
Peas	• • • • • • •	7,000	200	Brick 1	\$18,000
Plums		860,000	9,050	Carriages and wagons 3	E 000
Quinces		25,000	225		5,000 4,250
Strawberries		2,400	280		
Tomatoes		52,000			13 000
			650	Flouring mills 1 25	13,000
Cucumbers		65,000	6,050	Flouring mills 1 25 Foundries and iron	13,000 400,000
	····· <u>-</u>	65,000	6,050	Flouring mills 1 25 Foundries and iron works 3 150	13,000 400,000 2,100,000
Totals	····· <u>-</u>	65,000	\$122,540	Flouring mills 1 25	13,000 400,000 2,100,000 30,000
	····· <u>-</u>	65,000	\$122,540 Value.	Flouring mills 1 25 Foundries and iron works 3 150 Leather goods 4 25 Malt 1 6	13,000 400,000 2,100,000
Totals Dried— Almonds		65,000 13,901,940 Pounds. 61,000	\$122,540 Value. \$6,100	Flouring mills 1 25 Foundries and iron works 3 150 Leather goods 4 25 Malt 1 6 Meat products—	13,000 400,000 2,100,000 30,000 3,000
Totals Dried— Almonds Apples	1	65,000 13,901,940 Pounds. 61,000 1,500	\$122,540 Value. \$6,100 95	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200
Totals Dried— Almonds Apples	1	65,000 13,901,940 Pounds. 61,000 1,500 20,000	\$122,540 Value. \$6,100 95 2,100	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 250,000
Totals Dried— Almonds Apples Apricots Currants		65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000	\$122,540 Value. \$6,100 95 2,100 1,045	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 250,000
Totals Dried— Almonds Apples Apricots Currants Figs		65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 11,000	\$122,540 Value. \$6,100 95 2,100 1,045 2,500	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 250,000 3,780 190,000
Totals Dried— Almonds Apples Apricots Currants Figs Pears		65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 11,000 119,000	\$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 250,000
Totals Dried— Almonds Apples Apricots Currants Figs Pears Peaches		65,000	6,050 \$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 340	Flouring mills	13,000 400,000 2,100,000 3,000 11,200 10,000 250,000 3,780 190,000 7,500
Totals Dried— Almonds Apples Apricots Currants Figs Pears Peaches Plums Prumes		65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 11,000 119,000 300,000 850 150,000	\$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 340 4,000	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 250,000 3,780 190,000 7,500
Totals Dried— Almonds Apples Apricots Currants Figs Pears Peaches		65,000	6,050 \$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 340	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 250,000 3,780 190,000 7,500 16,500 250,000
Totals Dried— Almonds Apples Apricots Currants Figs Peaches Plums Prunes Raisins		65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 11,000 119,000 300,000 850 150,000 135,000	\$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 340 4,000 5,800	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 250,000 7,500 16,500 250,000 5,500
Totals Dried— Almonds Apples Apricots Currants Figs Pears Peaches Plums Prumes		65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 11,000 119,000 300,000 850 150,000	\$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 4,000 5,800	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 250,000 3,780 190,000 7,500 16,500 250,000
Totals Dried— Almonds Apples Apricots Currants Figs Peaches Plums Prunes Raisins		65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 119,000 300,000 850 150,000 135,000 898,350 Cases.	\$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 340 4,000 5,800 \$42,520 Value.	Flouring mills	13,000 400,000 30,000 3,000 11,200 10,000 250,000 3,780 190,000 7,500 16,500 250,000 5,500 25,000
Totals Dried— Almonds Apples Apricots Currants Figs Pears Peaches Prunes Raisins Totals Canned— Peaches		65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 119,000 300,000 300,000 3850 150,000 135,000 898,350 Cases. 67,000	\$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 5,800 \$42,520 Value. \$234,500	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 250,000 7,500 16,500 250,000 5,500 25,000 30,000
Totals Dried— Almonds Apples Apricots Currants Figs Pears Peaches Plums Prumes Raisins Totals Canned—		65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 119,000 300,000 850 150,000 135,000 898,350 Cases.	\$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 340 4,000 5,800 \$42,520 Value.	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 50,000 7,500 250,000 5,500 25,000 30,000
Totals Dried— Almonds Apples Apricots Currants Figs Pears Peaches Plums Prumes Raisins Totals Canned— Peaches Flums		65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 119,000 300,000 850 150,000 135,000 898,350 Cases. 67,000 10,000	\$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 5,800 \$42,520 Value. \$234,500 25,000	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 250,000 3,780 190,000 7,500 16,500 250,000 30,000 Quantity. 120
Totals Dried— Almonds Apples Apricots Currants Figs Pears Peaches Plums Prumes Raisins Totals Canned— Peaches Flums		65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 119,000 300,000 300,000 3850 150,000 135,000 898,350 Cases. 67,000	\$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 5,800 \$42,520 Value. \$234,500	Flouring mills	13,000 400,000 2,100,000 3,000 3,000 11,200 10,000 250,000 7,500 16,500 25,000 30,000 Quantity. 120 50
Totals Dried— Almonds Apples Apricots Currants Figs Peaches Plums Prunes Raisins Totals Canned— Peaches Plums Totals		65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 119,000 300,000 850 150,000 135,000 898,350 Cases. 67,000 10,000	\$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 5,800 \$42,520 Value. \$234,500 25,000	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 250,000 3,780 190,000 7,500 16,500 250,000 30,000 Quantity. 120 50 67,200
Totals Dried— Almonds Apples Apricots Currants Figs Peaches Plums Prunes Raisins Totals Canned— Peaches Plums Totals Totals Wine	s, Branc	65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 11,000 300,000 850 150,000 135,000 898,350 Cases. 67,000 10,000 77,000 dies, Etc.	\$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 5,800 \$42,520 Value. \$234,500 25,000	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 250,000 7,500 16,500 25,000 5,500 25,000 30,000 Quantity. 120 67,200 67,200
Totals Dried— Almonds Apples Apricots Currants Figs Peaches Plums Prunes Raisins Totals Canned— Peaches Plums Totals	s, Branc	65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 119,000 300,000 850 150,000 135,000 898,350 Cases. 67,000 10,000 77,000 dies, Etc. 1.	\$122,540 Value. \$6,100 1,045 2,100 1,045 2,500 8,540 12,000 5,800 \$42,520 Value. \$234,500 25,000 \$259,500	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 1250,000 3,780 190,000 7,500 16,500 250,000 30,000 Quantity. 120 50 67,200 60 140,000
Totals Dried— Almonds Apples Apricots Currants Figs Peaches Plums Prunes Raisins Totals Canned— Peaches Plums Totals Totals Wine	s, Branc	65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 119,000 300,000 850 150,000 135,000 898,350 Cases. 67,000 10,000 77,000 dies, Etc. 1. Gallons.	\$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 5,800 \$42,520 Value. \$234,500 25,000 \$259,500	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 250,000 3,780 190,000 16,500 25,000 30,000 Quantity. 120 67,200 140,000 1,566,000 1,566,000
Totals Dried— Almonds Apples Apricots Currants Figs Peaches Plums Prunes Raisins Totals Canned— Peaches Plums Totals Totals Wine	s, Braneweries,	65,000 13,901,940 Pounds. 61,000 1,500 20,000 11,000 119,000 300,000 300,000 8860 150,000 135,000 898,350 Cases. 67,000 10,000 77,000 dies, Etc. 1. Gallons.	\$122,540 Value. \$6,100 95 2,100 1,045 2,500 8,540 12,000 5,800 \$42,520 Value. \$234,500 25,000 \$259,500	Flouring mills	13,000 400,000 2,100,000 30,000 3,000 11,200 10,000 250,000 3,780 190,000 7,500 16,500 250,000 30,000 Quantity 120 67,200 60 140,000 102,000

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